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Manufacturer of Optocouplers / Optoisolators

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Welcome to the *Isocom Components* *Shortform Catalogue*

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About **Isocom Components**

Isocom Components has been a leading supplier of infrared optoelectronic devices for over 30 years with product families including all popular commercial optocoupler industry standard types including many no longer supplied by other manufacturers. We also offer special parametric selections to meet customer's specific circuit design requirements.

Isocom Components undertakes final assembly, marking, lead forming, testing and quality control at its production facility in the UK. Original components are sourced from world class approved suppliers in the Far East and elsewhere to ensure cost competitiveness and the very high quality standards.

We offer the shortest manufacturing lead times in the world for many parts and are proud of our fast turnaround capability whilst maintaining excellent product quality.

Why settle for lengthy lead times when we can deliver your components at a time when you need them ?

For all the latest news and new product offerings
please visit our website at :

www.isocom.com



Optocouplers

Why use an Optocoupler?

Optocouplers provide a low cost, space efficient, easy to use solution to high voltage isolation requirements. With careful PCB design the input can be electronically isolated from the output stage for up to 7,500 volts peak differential.

Which optocoupler to choose?

For those new to optocouplers the array of varieties may seem bewildering but by considering the specific application the right optocoupler can usually be selected easily.

Transistor

Transistor optocouplers can be used in most circumstances. If the base lead of the output transistor is not required in the circuit then the packages with no base lead connection provide additional protection against noise. The special dual and quad packages provide excellent PCB space savings where several optocouplers are required on the same circuit board.

AC Input

AC input devices, as the name implies, switch on the output transistor when an AC voltage (or a DC voltage of either polarity) is applied to the input. A typical application of this device is to detect the presence, or lack of, an AC voltage.

Darlington

Where high gain is required a darlington pair output device can provide up to 100% Current Transfer Ratio (CTR).

Schmitt Trigger

Where hysteresis control is needed together with a degree of speed, the Schmitt trigger devices provide an ideal solution.

Triac

Triac optocouplers provide control of AC voltages. For very high current applications, Isocom Components' Triac optocouplers can be used to control an external Power Triac.

Mini Flat Packages

A range of space saving optocouplers with various outputs including Zero Crossing Triacs and Random Phase Triacs.

Half Pitch Packages

A range of super small devices with both AC & DC inputs coupled with a phototransistor output.

IGBT / IPM Gate Drive

IGBT gate drivers power output stage is suitable for driving power IGBT or MOSFET while the IPM drivers are ideally used as intelligent power module interface for motor control inverter applications.

SMART IGBT Gate Drive

SMART IGBT Gate Drive optocoupler with Integrated Desaturation Detection and an optically isolated Fault Status feedback together with the power output stage for driving power IGBT or MOSFET provides maximum design flexibility and circuit protection.

High Speed

A range of industry standard High Speed optocouplers with data rates in excess of 10Mbits/sec.

Solid State Relays

A range of Photo MOSFET optocouplers in 1 Form A configuration. Suitable for controls and data transmission in industrial controls and meter reading.

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4 Pin DIL & SMD Optocouplers

Transistor Output

Part Number	Features	Current Transfer Ratio	Isolation Voltage	Continuous Forward Current	BV _{CEO}	I _{CEO(Dark)}	V _{CE(SAT)}	
		I _F = 5mA V _{CE} = 5V Min (%)			I _C = 0.5mA Min (V)	V _{CE} = 20V Max (nA)	I _F = 8mA I _C = 2.4mA Max (V)	
ISP321-1	Single channel Optocoupler with Phototransistor Output	50-600	7.5(pk) 5.3(rms)	50	80	100	0.4	
ISP521-1		50-600			55			
ISP621-1		50-600			55			0.4 (I _F =1mA) (I _C =0.5mA)
ISP624-1		100-1200 ¹ / 50 ²			80			0.2 (I _F =20mA) (I _C =1mA)
ISP817		50-600			300 (I _C =1mA)	100 (V _{CE} =200V)	0.3 (I _F =20mA) (I _C =1mA)	
ISP851		40-600			80	100	0.3 (I _F =10mA) (I _C =2mA)	
PS2501-1		80-600			70	50 (V _{CE} =10V)	0.4 (I _F =10mA) (I _C =2.5mA)	
SFH615A-1		40-80/13 (I _F =10mA/1mA)				100 (V _{CE} =10V)		
SFH615A-2		63-125/22 (I _F =10mA/1mA)				50 (V _{CE} =10V)		
SFH615A-3		100-200/34 (I _F =10mA/1mA)				100 (V _{CE} =10V)		
SFH615A-4		160-320/56 (I _F =10mA/1mA)			55	50 (V _{CE} =10V)	0.4 (I _F =1mA) (I _C =0.32mA)	
SFH617A-1		40-80/13 (I _F =10mA/1mA)				0.4 (I _F =1mA) (I _C =0.5mA)		
SFH617A-2		63-125/22 (I _F =10mA/1mA)				0.4 (I _F =1mA) (I _C =0.8mA)		
SFH617A-3		100-200/34 (I _F =10mA/1mA)				0.4 (I _F =5mA) (I _C =1mA)		
SFH617A-4		160-320/56 (I _F =10mA/1mA)			100 (V _{CE} =10V)	80	0.4	
SFH618A-2		63-125 ¹				55		
SFH618A-3		100-200 ¹				55		
SFH618A-4		160-320 ¹				55		
TIL191		20			35	100 (V _{CE} =10V)	0.4	
TIL191A		50						
TIL191B		100						
TLP321		50-600						
TLP521		50-600			80	100 (V _{CE} =10V)	0.4	
TLP621		50-600						
TLP624	100-1200 ¹ / 50 ²							

High Isolation Voltage

CNY65		50-300	8.2(rms)	75	80 (I _C =1mA)	200	0.3 (I _F =10mA) (I _C =1mA)
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Note 1 : Test Condition I_F = 1 mA, V_{CE} = 0.5V

Note 2 : Test Condition I_F = 0.5 mA, V_{CE} = 1.5V

AC Input

Part Number	Features	Current Transfer Ratio	Isolation Voltage	Continuous Forward Current	BV _{CEO}	I _{CEO(Dark)}	V _{CE(SAT)}
		I _F = ±10mA V _{CE} = 5V Min (%)			I _C = 1mA Min (V)	V _{CE} = 20V Max (nA)	Max (V)
ISP620-1	Single channel Optocoupler with two infrared LED's wired in reverse parallel allowing operation with AC input voltage	50-600 (I _F =±5mA)	7.5(pk) 5.3(rms)	±50	55 (I _C =0.5mA)	100 (V _{CE} =24V)	0.4 (I _F =±8mA) (I _C =2.4mA)
ISP626-1		100-1200 ¹ 50 ²					0.4 (I _F =±1mA) (I _C =0.5mA)
ISP814		20-300 (I _F =±1mA)			35		0.2 (I _F =±20mA) (I _C =1mA)
ISP814-1		/80 ³			70		100
ISP814-2		/40/80 ³				0.4 (I _F =±0.5mA) (I _C =0.2mA)	
ISP814-3		20/40/80 ³			0.4 (I _F =±0.25mA) (I _C =0.05mA)		
PS2505-1		80-600			80	100 (V _{CE} =40V)	0.3 (I _F =±10mA) (I _C =2mA)
SFH620A-1		40-125 / 13 (I _F =±1mA)			70	50	0.4 (I _F =±10mA) (I _C =2.5mA)
SFH620A-2		63-200 / 22 (I _F =±1mA)				100	
SFH620A-3		100-320 / 34 (I _F =±1mA)			55	200 (V _{CE} =10V)	0.4 (I _F =±1mA) (I _C =0.5mA)
SFH628A-2		63-200 ¹ / 32 ²					0.4 (I _F =±1mA) (I _C =0.8mA)
SFH628A-3		100-320 ¹ / 50 ²					0.4 (I _F =±1mA) (I _C =1.25mA)
SFH628A-4		160-500 ¹ / 80 ²					

4 Pin DIL & SMD Optocouplers

AC Input

Part Number	Features	Current Transfer Ratio $I_F = \pm 10\text{mA}$ $V_{CE} = 5\text{V}$	Isolation Voltage	Continuous Forward Current	BV_{CEO} $I_C = 1\text{mA}$	$I_{CEO(\text{Dark})}$ $V_{CE} = 20\text{V}$	$V_{CE(\text{SAT})}$
		Min (%)	Min (KV)	Max (mA)	Min (V)	Max (nA)	Max (V)
TIL194	Single channel Optocoupler with two infrared LED's wired in reverse parallel allowing operation with AC input voltage	20	7.5(pk) 5.3(rms)	±50	35	100 ($V_{CE}=24\text{V}$)	0.4 ($I_F=\pm 5\text{mA}$) ($I_C=1\text{mA}$)
TIL194A		50					
TIL194B		100					
TLP620		50-600 ($I_F=\pm 5\text{mA}$)			55		0.4 ($I_F=\pm 8\text{mA}$) ($I_C=2.4\text{mA}$)
TLP626-1		100-1200 ¹ 50 ²					

Note 1 : Test Condition $I_F = \pm 1\text{mA}$, $V_{CE} = 0.5\text{V}$

Note 2 : Test Condition $I_F = \pm 0.5\text{mA}$, $V_{CE} = 1.5\text{V}$

Note 3 : Test Condition $I_F = \pm 0.25 / \pm 0.5 / \pm 1\text{mA}$, $V_{CE} = 5\text{V}$

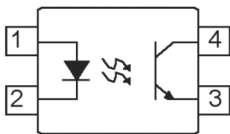
Darlington Output

Part Number	Features	Current Transfer Ratio $I_F = 1\text{mA}$ $V_{CE} = 1\text{V}$	Isolation Voltage	Continuous Forward Current	BV_{CEO} $I_C = 1\text{mA}$	$I_{CEO(\text{Dark})}$ $V_{CE} = 10\text{V}$	$V_{CE(\text{SAT})}$
		Min (%)	Min (KV)	Max (mA)	Min (V)	Max (nA)	Max (V)
IS627	Single channel Optocoupler with Photo-Darlington Transistor Output	1000-15000 ($V_{CE}=2\text{V}$)	7.5(pk) 5.3(rms)	50	300 ² ($I_C=0.1\text{mA}$)	200 ($V_{CE}=200\text{V}$)	1.2 ($I_F=20\text{mA}$) ($I_C = 100\text{mA}$)
IS7000		1000 ($V_{CE}=2\text{V}$)					
IS852		1000-15000 ($V_{CE}=2\text{V}$)					
ISP815		600-7500 ($V_{CE}=2\text{V}$)			35	1.0 ($I_F=20\text{mA}$, $I_C=5\text{mA}$)	
ISP815-1		/800 ¹					70
ISP815-2		/400/800 ¹			100 ($V_{CE}=20\text{V}$)	1.0 ($I_F=0.5\text{mA}$) ($I_C=2\text{mA}$)	
ISP815-3		200/400/800 ¹					40 ($I_C=0.5\text{mA}$)
PS2502-1		200 ($V_{CE}=2\text{V}$)			35 ($I_C=0.5\text{mA}$)	1.0 ($I_F=1\text{mA}$) ($I_C=2\text{mA}$)	
TIL197		500-7500 ($I_F=2\text{mA}$)					100
TIL197A		1000-7500 ($I_F=2\text{mA}$)					
TIL197B		1500-7500 ($I_F=2\text{mA}$)					

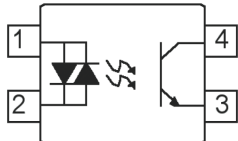
Note 1 : Test Condition $I_F = 0.25 / 0.5 / 1\text{mA}$, $V_{CE}=1\text{V}$

Note 2 : Device has a reverse biased diode connected between pins 3 and 4 giving high breakdown stability

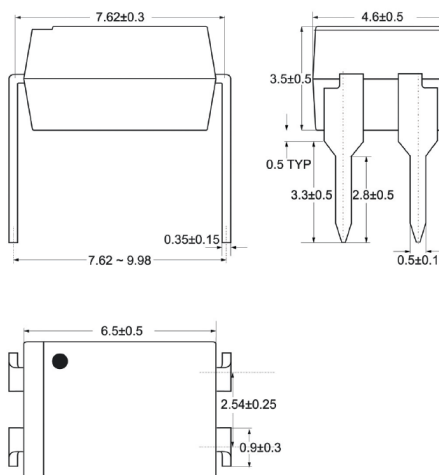
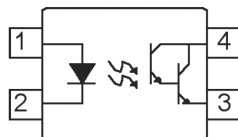
Transistor Output



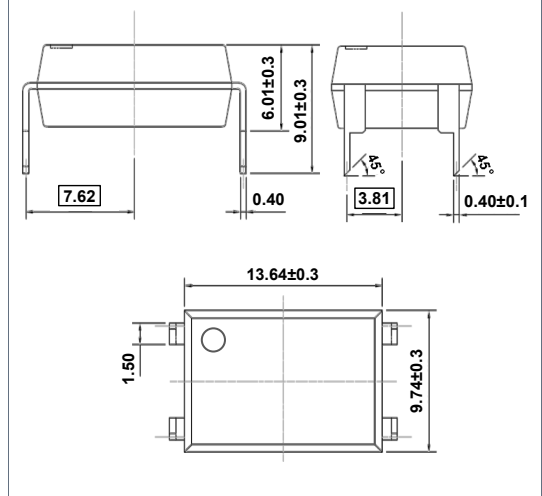
AC Input



Darlington Output



CNY65



6 Pin DIL & SMD Optocouplers

Transistor Output - Base Connected									
Part Number	Features	Current Transfer Ratio	Isolation Voltage	Continuous Forward Current	BV _{CEO}	I _{CEO(Dark)}	V _{CE(SAT)}		
		I _F = 10mA V _{CE} = 10V Min (%)			I _C = 1mA Min (V)	V _{CE} = 10V Max (nA)			
			Min (KV)	Max (mA)			Max (V)		
4N25	Single channel Optocoupler with Phototransistor Output	20	7.5(pk) 5.3(rms)	50	30	50	0.5 (I _F =50mA) (I _C =2mA)		
4N26		10						80	50 (V _{CE} =60V)
4N27							100		
4N28		20						80	50 (V _{CE} =60V)
4N35							40-160 (V _{CE} =0.4V)		
4N36		40 (V _{CE} =0.4V)						50	50
4N37							40-80 (V _{CE} =5V)		
4N38		63-125 (V _{CE} =5V)						90	150 (V _{CE} =20V)
4N38A							100-200 (V _{CE} =5V)		
CNX72A		200-400 (V _{CE} =5V)						50	50
CNX83AG							100-200 (V _{CE} =5V)		
CNY17-1		160-320 (V _{CE} =5V)						90	150 (V _{CE} =20V)
CNY17-2							200-400 (V _{CE} =5V)		
CNY17-3		100-200 (V _{CE} =5V)						50	50
CNY17-4							100-200 (V _{CE} =5V)		
CNY17-5		160-320 (V _{CE} =5V)						90	150 (V _{CE} =20V)
CNY75A							200-400 (V _{CE} =5V)		
CNY75B		50 (V _{CE} =5V)						30	50
CNY75C							20		
CQY80		100-300						70	150 (V _{CE} =20V)
H11A1							50		
H11A2		20						70	150 (V _{CE} =20V)
H11A3							20		
H11A4		10						70	150 (V _{CE} =20V)
H11A5							30		
H11AV1		100-300						70	150 (V _{CE} =20V)
H11AV2							50		
H11AV3		20						70	150 (V _{CE} =20V)
IL1							20-300		
IL2		100-500						70	150 (V _{CE} =20V)
IL5							50-400		
IL74		12.5 (I _F =16mA)						70	150 (V _{CE} =20V)
IS1							20		
IS2		100						70	150 (V _{CE} =20V)
IS201							75/10 (I _F =10mA/1mA)		
IS202		125-250/30 (I _F =10mA/1mA)						70	150 (V _{CE} =20V)
IS203							225-450/50 (I _F =10mA/1mA)		
IS204		200-400/100 (I _F =10mA/1mA)						70	150 (V _{CE} =20V)
IS204-1							50 (I _F =1mA) (V _{CE} =0.4V)		
IS204-2		50 (I _F =0.5mA) (V _{CE} =0.4V)						70	150 (V _{CE} =20V)
IS204-3	70 (I _F =0.5mA) (V _{CE} =0.4V) 100 (I _F =1mA) (V _{CE} =0.4V)		50	50	0.4 (I _F =10mA) (I _C =0.5mA)				
IS5		50-400				70	150 (V _{CE} =20V)	0.3 (I _F =10mA) (I _C =1mA)	
IS74	12.5 (I _F =16mA)		50	50	0.4 (I _F =10mA) (I _C =0.5mA)				
MCT2		20				70	150 (V _{CE} =20V)	0.3 (I _F =10mA) (I _C =1mA)	
MCT2E	50		50	50	0.4 (I _F =10mA) (I _C =0.5mA)				
MCT210		50 (I _F =3.2mA-32mA) (V _{CE} =0.4V) 150 (V _{CE} =5V)				30	50	0.4 (I _F =32mA) (I _C =16mA)	
MCT2200	20 (V _{CE} =5V)		70	150 (V _{CE} =20V)	0.3 (I _F =10mA) (I _C =1mA)				
MCT2201		100 (V _{CE} =5V)				50	50	0.4 (I _F =10mA) (I _C =2.5mA)	



6 Pin DIL & SMD Optocouplers

Transistor Output - Base Connected

Part Number	Features	Current Transfer Ratio $I_F = 10\text{mA}$ $V_{CE} = 10\text{V}$	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	BV_{CEO} $I_C = 1\text{mA}$	$I_{CEO(\text{Dark})}$ $V_{CE} = 10\text{V}$	$V_{CE(\text{SAT})}$	
		Min (%)			Min (V)	Max (nA)	Max (V)	
MCT2202	Single channel Optocoupler with Phototransistor Output	63-125 ($V_{CE}=5\text{V}$)	7.5(pk) 5.3(rms)	50	30		0.4 ($I_F=10\text{mA}$) ($I_C=2.5\text{mA}$)	
MCT270		50					20 ($I_F=16\text{mA}$) ($I_C=2\text{mA}$)	
MCT271		45-90						
MCT272		75-150						
SFH600-0		40-80 ($V_{CE}=5\text{V}$)			70	0.4 ($I_F=10\text{mA}$) ($I_C=2.5\text{mA}$)		
SFH600-1		63-125 ($V_{CE}=5\text{V}$)						
SFH600-2		100-200 ($V_{CE}=5\text{V}$)						
SFH600-3		160-320 ($V_{CE}=5\text{V}$)						
SFH600-4		200-400 ($V_{CE}=5\text{V}$)			100	50	0.4 ($I_F=10\text{mA}$) ($I_C=2.5\text{mA}$)	
SFH601-1		40-80 ($V_{CE}=5\text{V}$)						
SFH601-2		63-125 ($V_{CE}=5\text{V}$)						
SFH601-3		100-200 ($V_{CE}=5\text{V}$)						
SFH601-4		160-320 ($V_{CE}=5\text{V}$)			90		0.4 ($I_F=10\text{mA}$) ($I_C=2.5\text{mA}$)	
SFH609-1		40-80 ($V_{CE}=5\text{V}$)						
SFH609-2		63-125 ($V_{CE}=5\text{V}$)						
SFH609-3		100-200 ($V_{CE}=5\text{V}$)						
SFH609-4		160-320 ($V_{CE}=5\text{V}$)			30		0.4 ($I_F=16\text{mA}$) ($I_C=2\text{mA}$)	
TIL111		20 ($I_F=16\text{mA}$) ($V_{CE}=0.4\text{V}$)						
TIL114		20						0.4 ($I_F=15\text{mA}$) ($I_C=2.2\text{mA}$)
TIL116		20						
TIL117	50	0.4 ($I_F=10\text{mA}$) ($I_C=0.5\text{mA}$)						

Transistor Output - Non Base

Part Number	Features	Current Transfer Ratio $I_F = 10\text{mA}$ $V_{CE} = 10\text{V}$	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	BV_{CEO} $I_C = 1\text{mA}$	$I_{CEO(\text{Dark})}$ $V_{CE} = 20\text{V}$	$V_{CE(\text{SAT})}$
		Min (%)			Min (V)	Max (nA)	Max (V)
CNX62A	Single channel Optocoupler with Phototransistor Output with Base lead not connected for improved noise immunity	40 ($V_{CE}=0.4\text{V}$)	7.5(pk) 5.3(rms)	50	50		0.4 ($I_F=10\text{mA}$) ($I_C=4\text{mA}$)
CNX82A		40-80 ($V_{CE}=5\text{V}$)					0.4 ($I_F=10\text{mA}$) ($I_C=2.5\text{mA}$)
CNY17F-1		63-125 ($V_{CE}=5\text{V}$)					
CNY17F-2		100-200 ($V_{CE}=5\text{V}$)					
CNY17F-3		160-320 ($V_{CE}=5\text{V}$)					
CNY17F-4		200-400 ($V_{CE}=5\text{V}$)			50	100	0.4 ($I_F=10\text{mA}$) ($I_C=0.5\text{mA}$)
CNY17F-5		100					
IS205		50 ¹					
IS205-1		50 ²					
IS205-2		70 ^{2/100} ¹			70		0.4 ($I_F=1\text{mA}$) ($I_C=0.5\text{mA}$)
IS205-3		50					
IS206		50-80					
MOC8101		73-117					
MOC8102		108-173			50		0.4 ($I_F=5\text{mA}$) ($I_C=0.5\text{mA}$)
MOC8103		160-256					
MCA8104		65-133					
MOC8105		50-150					
MOC8106		100-300			50		0.4 ($I_F=10\text{mA}$) ($I_C=0.5\text{mA}$)
MOC8107		250-600					
MOC8108		20					
MOC8111	50						
MOC8112	50	0.4 ($I_F=10\text{mA}$) ($I_C=0.5\text{mA}$)					
MOC8113	100						

Note 1 : Test Condition $I_F = 1\text{mA}$, $V_{CE} = 0.4\text{V}$

Note 2 : Test Condition $I_F = 0.5\text{mA}$, $V_{CE} = 0.4\text{V}$

 DRAWINGS OVERLEAF

6 Pin DIL & SMD Optocouplers

AC Input Transistor Output - Base Connected

Part Number	Features	Current Transfer Ratio	Isolation Voltage	Continuous Forward Current	BV _{CEO}	I _{CEO(Dark)}	V _{CE(SAT)}
		I _F = ±10mA V _{CE} = 10V Min (%)			I _C = 0.1mA Min (V)	V _{CE} =10V Max (nA)	I _F = ±10mA I _C = 0.5mA Max (V)
CNY35	Single channel Optocoupler with two infrared LED's wired in inverse parallel allowing operation with AC input Voltage	10	7.5(pk) 5.3(rms)	±50	30 (I _C =1mA)	50	0.4
H11AA1		20					
H11AA2		10					
H11AA3		50					
H11AA4		100					
IS604		50					
IS733		200-300 (I _F =1mA) (V _{CE} =5V)			30 (I _C =1mA)		

Darlington Output - Base Connected

Part Number	Features	Current Transfer Ratio	Isolation Voltage	Continuous Forward Current	BV _{CEO}	I _{CEO(Dark)}	V _{CE(SAT)}	
		I _F = 10mA V _{CE} = 10V Min (%)			I _C = 1mA Min (V)	V _{CE} = 10V Max (nA)	(I _F = 8mA) (I _C = 2mA) Max (V)	
4N29	Single channel Optocoupler with Photo-Darlington Transistor Output	100	7.5(pk) 5.3(rms)	60	30	100	1	
4N30		50					1.2	
4N31							500	1
4N32								1.0 (I _F =1mA) (I _C =1mA)
4N33		500 (I _F =1mA) (V _{CE} =5V)						
H11B1		200 (I _F =1mA) (V _{CE} =5V)						
H11B2		100 (I _F =1mA) (V _{CE} =5V)						
H11B3		100 (V _{CE} =5V)					1.0 (I _F =50mA) (I _C =50mA)	
MCA2230		500 (V _{CE} =5V)					1.0 (I _F =1mA) (I _C =2mA)	
MCA2231		100 (V _{CE} =5V)					1.0 (I _F =50mA) (I _C =50mA)	
MCA2255								
MCA230								
MCA231								
MCA255		500 (V _{CE} =5V)					1.0 (I _F =1mA) (I _C =1mA)	
MOC8080		500 (V _{CE} =1V)					1.0 (I _F =50mA) (I _C =50mA)	
TIL113								

Darlington Output - Non Base

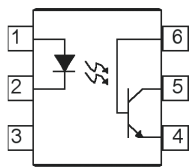
Part Number	Features	Current Transfer Ratio	Isolation Voltage	Continuous Forward Current	BV _{CEO}	I _{CEO(Dark)}	V _{CE(SAT)}	
		I _F = 1mA V _{CE} = 2V Min (%)			I _C = 1mA Min (V)	V _{CE} = 10V Max (nA)	(I _F = 10mA) (I _C = 10mA) Max (V)	
4N29F	Single channel Optocoupler with Photo-Darlington Transistor Output with Base lead not connected for improved noise immunity	100 (I _F =10mA) (V _{CE} =10V)	7.5(pk) 5.3(rms)	50	35 (I _C =0.1mA)	100	1.0 (I _F =8mA) (I _C =2mA)	
4N30F		50 (I _F =10mA) (V _{CE} =10V)					1.2 (I _F =8mA) (I _C =2mA)	
4N31F							500 (I _F =10mA) (V _{CE} =10V)	1.0 (I _F =8mA) (I _C =2mA)
4N32F								1.0 (I _F =10mA) (I _C =10mA)
4N33F		100						
ISPD60		500						
ISPD61		1000						
ISPD62		100						
ISPD63		500						
ISPD64		1000						
ISPD65		500 (I _F =10mA) (V _{CE} =5V)						
MOC8020		1000 (I _F =10mA) (V _{CE} =5V)						
MOC8021		300 (I _F =10mA) (V _{CE} =1.5V)						
MOC8030		500 (I _F =10mA) (V _{CE} =1.5V)						
MOC8050		300 (I _F =10mA) (V _{CE} =1V)					1.0 (I _C =30mA)	
TIL119								

6 Pin DIL & SMD Optocouplers

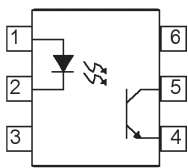
Darlington Output - Base Connected High Voltage

Part Number	Features	Current Transfer Ratio $I_F = 1\text{mA}$ $V_{CE} = 5\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO}(\text{Dark})$ Max (nA)	$V_{CE(\text{SAT})}$ Max (V)
H11G1	Single channel Optocoupler with Photo-Darlington Transistor Output with High Operating Voltage	500	7.5(pk) 5.3(rms)	50	100	100 ($V_{CE}=80\text{V}$)	1.0 ($I_F=1\text{mA}$) ($I_C=1\text{mA}$)
H11G2		1000 ($I_F=10\text{mA}$) ($V_{CE}=1.2\text{V}$)			80	100 ($V_{CE}=60\text{V}$)	
H11G3		200			100 ($V_{CE}=30\text{V}$)	1.2 ($I_F=20\text{mA}$) ($I_C=50\text{mA}$)	
IS4N45		250 ($V_{CE}=1\text{V}$)			100 ($V_{CE}=55\text{V}$)	1.0 ($I_F=1\text{mA}$) ($I_C=2.5\text{mA}$)	
IS4N46		500 ($V_{CE}=1\text{V}$)				1.0 ($I_F=0.5\text{mA}$) ($I_C=1.75\text{mA}$)	
IS660		1000			1000 ($V_{CE}=200\text{V}$)	200	1.2 ($I_F=20\text{mA}$) ($I_C=100\text{mA}$)
IS661						300	
IS725							

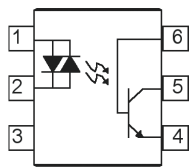
Transistor Output



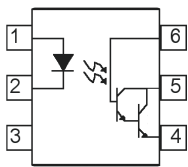
Transistor Output - Non Base



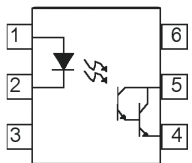
AC Input



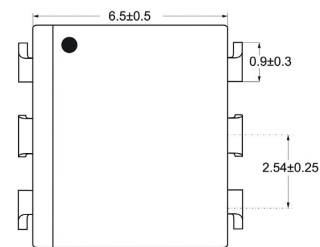
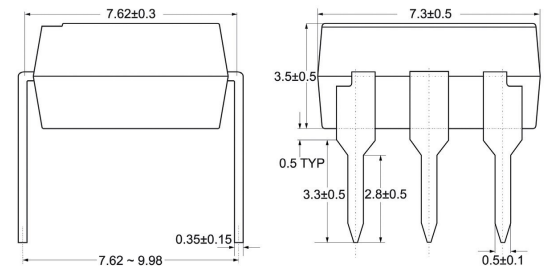
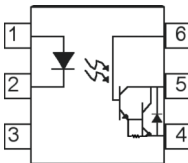
Darlington Output



Darlington Output - Non Base



Darlington Output - High Voltage



8 Pin DIL & SMD Optocouplers

Transistor Output

Part Number	Features	Current Transfer Ratio $I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$	Isolation Voltage	Continuous Forward Current	BV_{CEO} $I_C = 0.5\text{mA}$	$I_{CEO(\text{Dark})}$ $V_{CE} = 20\text{V}$	$V_{CE(\text{SAT})}$ $I_F = 8\text{mA}$ $I_C = 2.4\text{mA}$
		Min (%)			Min (KV)	Max (mA)	Min (V)
ISP321-2	Two channel Optocoupler with Phototransistor Output	50-600	7.5(pk) 5.3(rms)	50	80	100	0.4
ISP521-2		50-600			55		
ISP621-2		50-600			35		
ISP827		50-600			55		0.2 ($I_F=20\text{mA}$) ($I_C=1\text{mA}$)
ISP624-2		100-1200 ¹ / 50 ²			80		0.4 ($I_F=1\text{mA}$) ($I_C=0.5\text{mA}$)
PS2501-2		80-600			35		0.3 ($I_F=10\text{mA}$) ($I_C=2\text{mA}$)
TIL192		20			0.4 ($I_F=5\text{mA}$) ($I_C=1\text{mA}$)		
TIL192A		50					
TIL192B		100					
TLP321-2		50-600			80		0.4
TLP521-2		50-600			55		
TLP621-2		50-600			55		
TLP624-2		100-1200 ¹ / 50 ²			55		

Note 1 : Test Condition $I_F = 1\text{mA}$, $V_{CE}=0.5\text{V}$

Note 2 : Test Condition $I_F = 0.5\text{mA}$, $V_{CE}=1.5\text{V}$

AC Input

Part Number	Features	Current Transfer Ratio $I_F = \pm 10\text{mA}$ $V_{CE} = 5\text{V}$	Isolation Voltage	Continuous Forward Current	BV_{CEO} $I_C = 1\text{mA}$	$I_{CEO(\text{Dark})}$ $V_{CE} = 20\text{V}$	$V_{CE(\text{SAT})}$
		Min (%)			Min (KV)	Max (mA)	Min (V)
ISP620-2	Two channel Optocoupler with two infrared LED's wired in reverse parallel allowing operation with AC input voltage	50-600 ¹	7.5(pk) 5.3(rms)	± 50	55 ($I_C=0.5\text{mA}$)	100 ($V_{CE}=24\text{V}$)	0.4 ($I_F=\pm 8\text{mA}$) ($I_C=2.4\text{mA}$)
ISP626-2		100-1200 ² 50 ³					0.4 ($I_F=\pm 1\text{mA}$) ($I_C=0.5\text{mA}$)
ISP824		20-300 ⁴			35	100	0.2 ($I_F=\pm 20\text{mA}$) ($I_C=1\text{mA}$)
PS2505-2		80-600			80	100 ($V_{CE}=40\text{V}$)	0.3 ($I_F=\pm 10\text{mA}$) ($I_C=2\text{mA}$)
TIL195		20			35	100 ($V_{CE}=24\text{V}$)	0.4 ($I_F=\pm 5\text{mA}$) ($I_C=1\text{mA}$)
TIL195A		50					
TIL195B		100					
TLP620-2		50-600 ¹			55	100 ($V_{CE}=24\text{V}$)	0.4 ($I_F=\pm 8\text{mA}$) ($I_C=2.4\text{mA}$)
TLP626-2		100-1200 ² 50 ³					0.4 ($I_F=\pm 1\text{mA}$) ($I_C=0.5\text{mA}$)

Note 1 : Test Condition $I_F = \pm 5\text{mA}$

Note 2 : Test Condition $I_F = \pm 1\text{mA}$, $V_{CE}=0.5\text{V}$

Note 3 : Test Condition $I_F = \pm 0.5\text{mA}$, $V_{CE}=1.5\text{V}$

Note 4 : Test Condition $I_F = \pm 1\text{mA}$

Darlington Output

Part Number	Features	Current Transfer Ratio $I_F = 1\text{mA}$ $V_{CE} = 1\text{V}$	Isolation Voltage	Continuous Forward Current	BV_{CEO} $I_C = 1\text{mA}$	$I_{CEO(\text{Dark})}$ $V_{CE} = 10\text{V}$	$V_{CE(\text{SAT})}$
		Min (%)			Min (KV)	Max (mA)	Min (V)
ISP825	Two channel Optocoupler with Photo-Darlington Transistor Output	600-7500 ($V_{CE}=2\text{V}$)	7.5(pk) 5.3(rms)	50	35	100 ($V_{CE}=20\text{V}$)	1.0 ($I_F=20\text{mA}$) ($I_C = 5\text{mA}$)
ISP825-1		/800 ¹			70		1.0 ($I_F=1\text{mA}$) ($I_C=8\text{mA}$)
ISP825-2		/400/800 ¹					1.0 ($I_F=0.5\text{mA}$) ($I_C=2\text{mA}$)
ISP825-3		200/400/800 ¹					1.0 ($I_F=0.25\text{mA}$) ($I_C=0.5\text{mA}$)
PS2502-2		200 ($V_{CE}=2\text{V}$)			40 ($I_C=0.5\text{mA}$)	100	1.0 ($I_F=1\text{mA}$) ($I_C=2\text{mA}$)
TIL198		500-7500 ($I_F=2\text{mA}$)			35 ($I_C=0.5\text{mA}$)		1.0 ($I_F=2\text{mA}$) ($I_C=10\text{mA}$)
TIL198A		1000-7500 ($I_F=2\text{mA}$)					
TIL198B		1500-7500 ($I_F=2\text{mA}$)					

Note 1 : Test Condition $I_F = 0.25 / 0.5 / 1\text{mA}$, $V_{CE} = 1\text{V}$

8 Pin DIL & SMD Optocouplers

Transistor Output Symmetrical Configuration

Part Number	Features	Current Transfer Ratio $I_F = 10\text{mA}$ $V_{CE} = 10\text{V}$	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	BV_{CEO} $I_C = 1\text{mA}$	$I_{CEO(\text{Dark})}$ $V_{CE} = 10\text{V}$	$V_{CE(\text{SAT})}$ $I_F = 16\text{mA}$ $I_C = 2\text{mA}$
		Min (%)			Min (V)	Max (nA)	Max (V)
ILD1	Two channel Optocoupler with Photo- transistor Output	20-300	7.5(pk) 5.3(rms)	50	50	50	0.4
ILD2		100-500			70		
ILD5		50-400			50		
ILD74		12.5 ($I_F = 16\text{mA}$ $V_{CE} = 5\text{V}$)			50	100 ($V_{CE} = 20\text{V}$)	0.2 ($I_F = 20\text{mA}$) ($I_C = 1\text{mA}$)
IS829		50 ($I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$)			35		
ISD1		20-300			50	100 ($V_{CE} = 20\text{V}$)	0.3 ($I_F = 10\text{mA}$) ($I_C = 2\text{mA}$)
ISD2		100-500			70		
ISD5		50-400			50	50	0.4
ISD74		12.5 ($I_F = 16\text{mA}$ $V_{CE} = 5\text{V}$)			50		
MCT6		20			30	100	0.4
MCT61		50 ($I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$)					
MCT62		100 ($I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$)					
MCT66		6					

High CTR High Sensitivity / Low Input Current Transistor Output Symmetrical Configuration

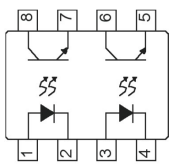
Part Number	Features	Current Transfer Ratio $I_F = 10\text{mA}$ $V_{CE} = 10\text{V}$	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	BV_{CEO} $I_C = 1\text{mA}$	$I_{CEO(\text{Dark})}$ $V_{CE} = 10\text{V}$	$V_{CE(\text{SAT})}$ $I_F = 10\text{mA}$ $I_C = 2\text{mA}$
		Min (%)			Min (V)	Max (nA)	Max (V)
ISD201	Two channel Optocoupler with Photo- transistor Output	75 / 10 ¹	7.5(pk) 5.3(rms)	50	70	50	0.4
ISD202		125-250 / 30 ¹					
ISD203		225-450 / 50 ¹					
ISD204		200-400 / 100 ¹					
ISD204-1		50 ²				100 ($V_{CE} = 20\text{V}$)	0.4 ($I_F = 1\text{mA}$) ($I_C = 0.5\text{mA}$)
ISD204-2		50 ³					0.4 ($I_F = 0.5\text{mA}$) ($I_C = 0.25\text{mA}$)
ISD204-3		70 ³ / 100 ²					0.4 ($I_F = 0.35\text{mA}$) ($I_C = 0.5\text{mA}$)

Note 1 : Test Condition $I_F = 1\text{mA}$, $V_{CE} = 10\text{V}$

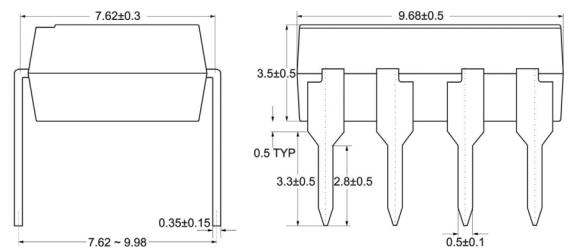
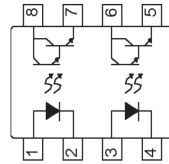
Note 2 : Test Condition $I_F = 1\text{mA}$, $V_{CE} = 0.4\text{V}$

Note 3 : Test Condition $I_F = 0.5\text{mA}$, $V_{CE} = 0.4\text{V}$

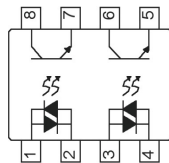
Transistor Output



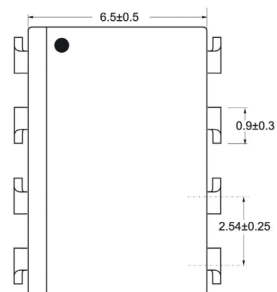
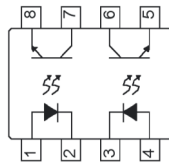
Darlington Output



AC Input



Symmetrical Configuration



16 Pin DIL & SMD Optocouplers

Transistor Output

Part Number	Features	Current Transfer Ratio $I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	BV_{CEO} $I_C = 0.5\text{mA}$	$I_{CEO(Dark)}$ $V_{CE} = 20\text{V}$	$V_{CE(SAT)}$ $I_F = 8\text{mA}$ $I_C = 2.4\text{mA}$	
		Min (%)			Min (V)	Max (nA)	Max (V)	
ISP321-4	Four channel Optocoupler with Phototransistor Output	50-600	7.5(pk) 5.3(rms)	50	80	100	0.4	
ISP521-4		50-600			55			
ISP621-4		50-600			35			0.2 ($I_F=20\text{mA}$) ($I_C=1\text{mA}$)
ISP847		50-600			55			0.4 ($I_F=1\text{mA}$) ($I_C=0.5\text{mA}$)
ISP624-4		100-1200 ¹			80		0.3 ($I_F=10\text{mA}$) ($I_C=2\text{mA}$)	
PS2501-4		80-600			35		0.4 ($I_F=5\text{mA}$) ($I_C=1\text{mA}$)	
TIL193		20						
TIL193A		50						
TIL193B		100						
TLP321-4		50-600			80		0.4	
TLP521-4		50-600			55			
TLP621-4		50-600						
TLP624-4		100-1200 ¹						0.4 ($I_F=1\text{mA}$) ($I_C=0.5\text{mA}$)

Note 1 : Test Condition $I_F = 1\text{mA}$, $V_{CE}=0.5\text{V}$

AC Input

Part Number	Features	Current Transfer Ratio $I_F = \pm 10\text{mA}$ $V_{CE} = 5\text{V}$	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	BV_{CEO} $I_C = 1\text{mA}$	$I_{CEO(Dark)}$ $V_{CE} = 20\text{V}$	$V_{CE(SAT)}$
		Min (%)			Min (V)	Max (nA)	Max (V)
ISP620-4	Four channel Optocoupler with two infrared LED's wired in reverse parallel allowing operation with AC input voltage	50-600 ¹	7.5(pk) 5.3(rms)	± 50	55 ($I_C=0.5\text{mA}$)	100 ($V_{CE}=24\text{V}$)	0.4 ($I_F=\pm 8\text{mA}$) ($I_C=2.4\text{mA}$)
ISP626-4		100-1200 ² 50 ³					0.4 ($I_F=\pm 1\text{mA}$) ($I_C=0.5\text{mA}$)
ISP844		20-300 ⁴					0.2 ($I_F=\pm 20\text{mA}$) ($I_C=1\text{mA}$)
PS2505-4		80-600			80	100 ($V_{CE}=40\text{V}$)	0.3 ($I_F=\pm 10\text{mA}$) ($I_C=2\text{mA}$)
TIL196		20			35	100 ($V_{CE}=24\text{V}$)	0.4 ($I_F=\pm 5\text{mA}$) ($I_C=1\text{mA}$)
TIL196A		50					
TIL196B		100					
TLP620-4		50-600 ¹			55	0.4 ($I_F=\pm 8\text{mA}$) ($I_C=2.4\text{mA}$)	
TLP626-4		100-1200 ² 50 ³					0.4 ($I_F=\pm 1\text{mA}$) ($I_C=0.5\text{mA}$)

Note 1 : Test Condition $I_F = \pm 5\text{mA}$

Note 2 : Test Condition $I_F = \pm 1\text{mA}$, $V_{CE}=0.5\text{V}$

Note 3 : Test Condition $I_F = \pm 0.5\text{mA}$, $V_{CE}=1.5\text{V}$

Note 4 : Test Condition $I_F = \pm 1\text{mA}$

Darlington Output

Part Number	Features	Current Transfer Ratio $I_F = 1\text{mA}$ $V_{CE} = 1\text{V}$	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	BV_{CEO} $I_C = 1\text{mA}$	$I_{CEO(Dark)}$ $V_{CE} = 10\text{V}$	$V_{CE(SAT)}$	
		Min (%)			Min (V)	Max (nA)	Max (V)	
ISP845	Four channel Optocoupler with Photo-Darlington Transistor Output	600-7500 ($V_{CE}=2\text{V}$)	7.5(pk) 5.3(rms)	50	35	100 ($V_{CE}=20\text{V}$)	1 ($I_F=20\text{mA}$) ($I_C = 5\text{mA}$)	
ISP845-1		/800 ¹					1 ($I_F=1\text{mA}$) ($I_C=8\text{mA}$)	
ISP845-2		/400/800 ¹					1 ($I_F=0.5\text{mA}$) ($I_C=2\text{mA}$)	
ISP845-3		200/400/800 ¹					1 ($I_F=0.25\text{mA}$) ($I_C=0.5\text{mA}$)	
PS2502-4		200-2000			40 ($I_C=0.5\text{mA}$)	1	100	1 ($I_F=1\text{mA}$) ($I_C=2\text{mA}$)
TIL199		500-7500 ($I_F=2\text{mA}$)			35 ($I_C=0.5\text{mA}$)			1 ($I_F=2\text{mA}$) ($I_C=10\text{mA}$)
TIL199A		1000-7500 ($I_F=2\text{mA}$)						
TIL199B		1500-7500 ($I_F=2\text{mA}$)						

Note 1: Test Condition $I_F = 0.25 / 0.5 / 1\text{mA}$, $V_{CE} = 1\text{V}$

16 Pin DIL & SMD Optocouplers

Transistor Output Symmetrical Configuration

Part Number	Features	Current Transfer Ratio $I_F = 10\text{mA}$ $V_{CE} = 10\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(\text{Dark})}$ $V_{CE} = 10\text{V}$ Max (nA)	$V_{CE(\text{SAT})}$ $I_F = 16\text{mA}$ $I_C = 2\text{mA}$ Max (V)		
ILQ1	Four channel Optocoupler with Phototransistor Output	20-300	7.5(pk 5.3 (rms))	50	50	50	0.4		
ILQ2		100-500			70				
ILQ5		50-400			50				
ILQ74		12.5 ($I_F = 16\text{mA}$ $V_{CE} = 5\text{V}$)			35			100 ($V_{CE} = 20\text{V}$)	0.2 ($I_F = 20\text{mA}$) ($I_C = 1\text{mA}$)
IS849		50 ($I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$)			50			50	0.3 ($I_F = 10\text{mA}$) ($I_C = 2\text{mA}$)
ISQ1		20-300			70			100 ($V_{CE} = 20\text{V}$)	0.4 ($I_F = 5\text{mA}$) ($I_C = 1\text{mA}$)
ISQ2		100-500			50			50	0.4
ISQ74		12.5 ($I_F = 16\text{mA}$ $V_{CE} = 5\text{V}$)			50			50	0.4

High CTR High Sensitivity / Low Input Current Transistor Output Symmetrical Configuration

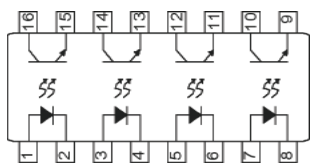
Part Number	Features	Current Transfer Ratio $I_F = 10\text{mA}$ $V_{CE} = 10\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(\text{Dark})}$ $V_{CE} = 10\text{V}$ Max (nA)	$V_{CE(\text{SAT})}$ $I_F = 10\text{mA}$ $I_C = 2\text{mA}$ Max (V)		
ISQ201	Four channel Optocoupler with Phototransistor Output	75 / 10 ¹	7.5(pk) 5.3(rms)	50	70	50	0.4		
ISQ202		125-250 / 30 ¹							
ISQ203		225-450 / 50 ¹							
ISQ204		200-400 / 100 ¹							
ISQ204-1		50 ²						100 ($V_{CE} = 20\text{V}$)	0.4 ($I_F = 1\text{mA}$) ($I_C = 0.5\text{mA}$)
ISQ204-2		50 ³							0.4 ($I_F = 0.5\text{mA}$) ($I_C = 0.25\text{mA}$)
ISQ204-3		70 ³ / 100 ²							0.4 ($I_F = 0.35\text{mA}$) ($I_C = 0.5\text{mA}$)

Note 1 : Test Condition $I_F = 1\text{mA}$

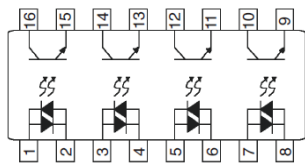
Note 2 : Test Condition $I_F = 1\text{mA}$, $V_{CE} = 0.4\text{V}$

Note 3 : Test Condition $I_F = 0.5\text{mA}$, $V_{CE} = 0.4\text{V}$

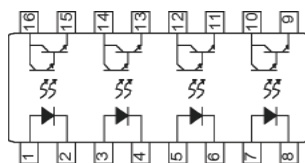
Transistor Output



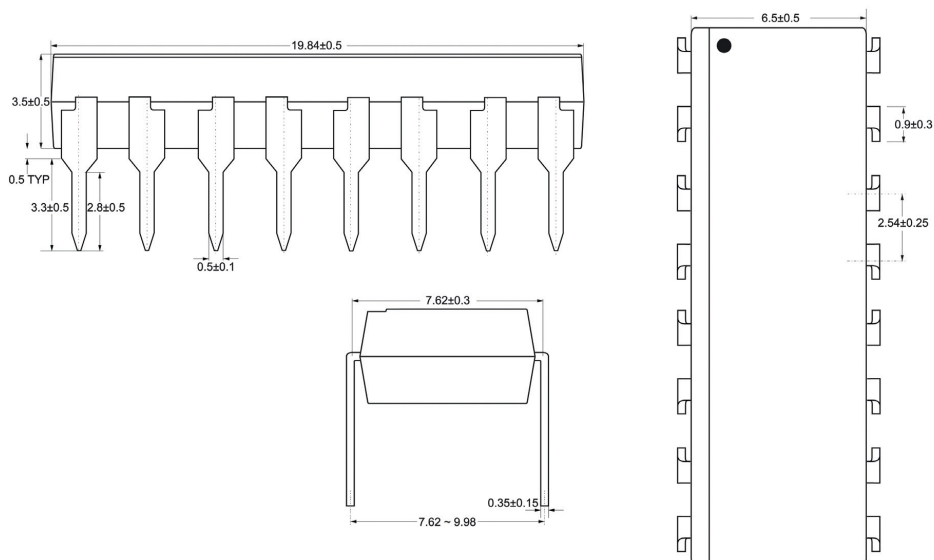
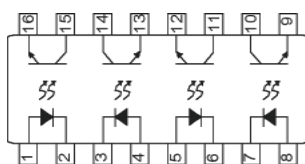
AC Input



Darlington Output



Symmetrical Configuration



6 Pin DIL & SMD Triac Optocouplers

Random Phase							
Part Number	Features	Input Trigger Current $V_{TM} = 3V$	Isolation Voltage	Continuous Forward Current	V_R $I_R = 10\mu A$	I_{DRM} Peak Off State Current $V_{DRM} = \text{Rated } V_{DRM}$	V_{DRM} Peak Blocking Voltage $I_{DRM} = 0.1mA$
		Max (mA)	Min (KV _{RMS})	Max (mA)	Min (V)	Max (nA)	Max (V)
H11J1	Infrared Emitting Diode and Light Activated Random Phase Bilateral Switch	10	7.5(pk) 5.3(rms)	50	6	100	250
H11J2		15					
H11J3		10					
H11J4		15					
H11J5		25					
IS3009		30					
IS3010		15					
IS3011		10					
IS3012		5					
IS3020		30					
IS3021		15					
IS3022		10					
IS3023		5					
IS3051		15					
IS3052		10					
IS6003		3					
IS6005		5					
IS6010		10					
IS6015		15					
IS6030		30					
IS607		10					
IS608		7					
MOC3009		30					
MOC3010		15					
MOC3011		10					
MOC3012		5					
MOC3020		30					
MOC3021		15					
MOC3022		10					
MOC3023		5					
MOC3051		15					
MOC3052		10					
							400
							450
							250
							400
							600

Zero Crossing							
Part Number	Features	Input Trigger Current $V_O = 3V$	Isolation Voltage	Continuous Forward Current	V_R $I_R = 10\mu A$	I_{DRM} Peak Off State Current $V_{DRM} = \text{Rated } V_{DRM}$	V_{DRM} Peak Blocking Voltage $I_{DRM} = 0.1mA$
		Max (mA)	Min (KV _{RMS})	Max (mA)	Min (V)	Max (nA)	Max (V)
IS3030	Infrared Emitting Diode and Light Activated Zero Crossing Bilateral Switch	30	7.5(pk) 5.3(rms)	50	6	100	250
IS3031		15					
IS3032		10					
IS3033		5					
IS3040		30					
IS3041		15					
IS3042		10					
IS3043		5					
IS3060		15					
IS3061		10					
							600

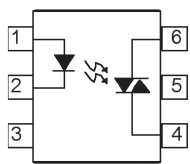


6 Pin DIL & SMD Triac Optocouplers

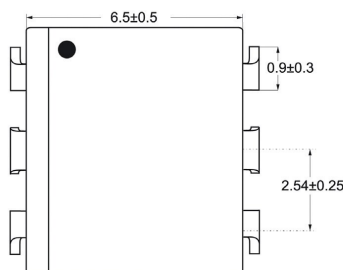
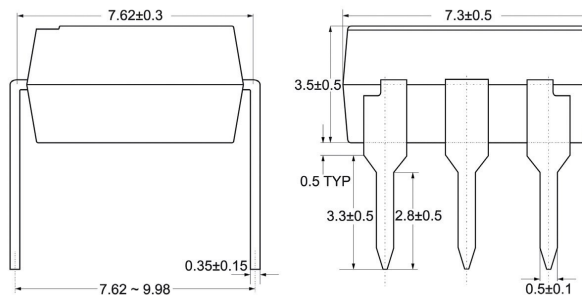
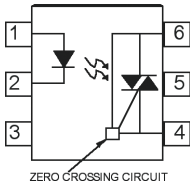
Zero Crossing

Part Number	Features	Input Trigger Current $V_{TM} = 3V$	Isolation Voltage	Continuous Forward Current	V_R $I_R = 10\mu A$	I_{DRM} Peak Off State Current $V_{DRM} = \text{Rated } V_{DRM}$	V_{DRM} Peak Blocking Voltage $I_{DRM} = 0.1mA$
		Max (mA)	Min (KV _{RMS})	Max (mA)	Min (V)	Max (nA)	Max (V)
IS3062	Infrared Emitting Diode and Light Activated Zero Crossing Bilateral Switch	10	7.5(pk) 5.3(rms)	50	6	300	600
IS3063		5					
IS3080		30					800
IS3081		15					
IS3082		10					
IS3083		5					
IS620		30					400
IS621		15					
IS622		10					
IS623		5					
MOC3030		30					250
MOC3031		15					
MOC3032		10					
MOC3033		5					
MOC3040		30					400
MOC3041		15					
MOC3042		10					
MOC3043		5					
MOC3060		30					600
MOC3061		15					
MOC3062		10					
MOC3063		5					
MOC3080		30					800
MOC3081		15					
MOC3082		10					
MOC3083		5					

Random Phase



Zero Crossing

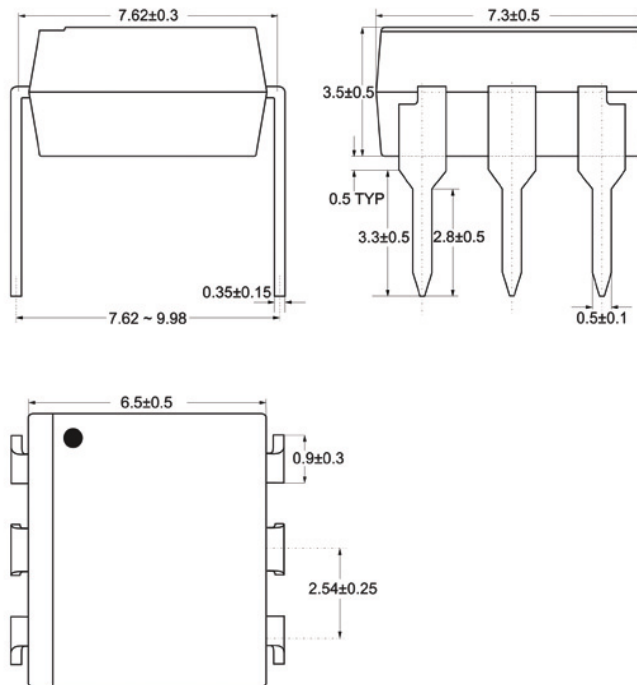
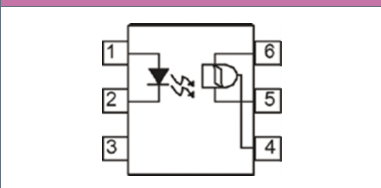


6 Pin DIL & SMD Schmitt Trigger

Schmitt Trigger

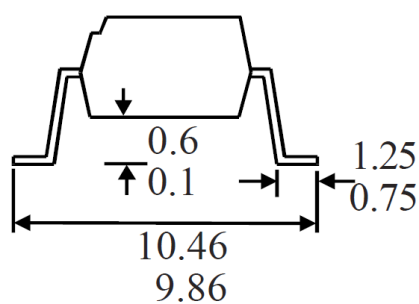
Part Number	Features	Turn-On Threshold Current $R_L = 270\Omega$ $V_{CE} = 5V$ Max (mA)	Turn-Off Threshold Current $R_L = 270\Omega$ $V_{CE} = 5V$ Min (mA)	Isolation Voltage Min (KV _{RMS})	V_{CC} (V)	Continuous Forward Current Max (mA)	V_F $I_F = 10mA$ Max (V)	V_{OL} Output Voltage (Low) $I_F = I_{F(on) max}$ $R_L = 270\Omega$ $V_{CE} = 5V$ Max (V)		
H11L1	Microprocessor Compatible	1.6	1 Typical	5	3 - 15	60	1.5	0.4		
H11L2		10	0.3			50				
H11L3		5								
H11L4		2								
IS609		1.6	0.3			1 Typical			60	
IS900			4						0.3	50
MOC5007										
MOC5008		10	0.3			50			50	
MOC5009										

Schmitt Trigger

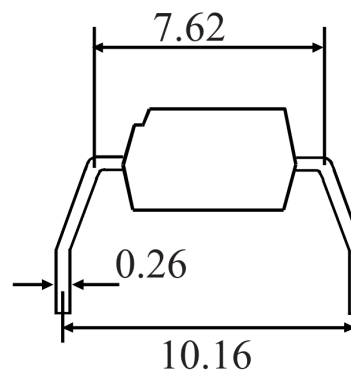


Lead Form Diagrams

**OPTION SM
SURFACE MOUNT**



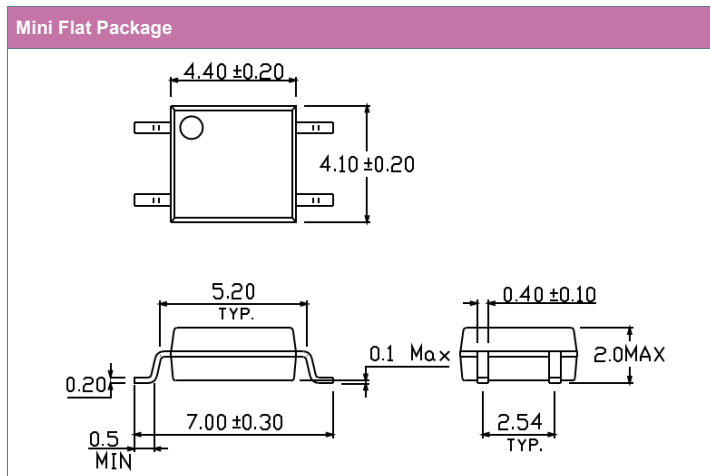
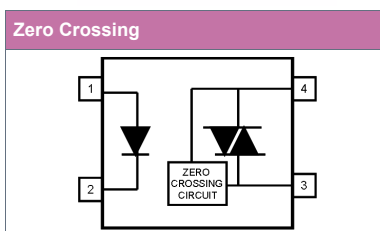
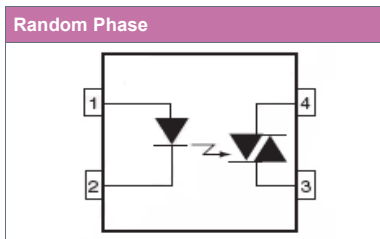
OPTION G



4 Pin Mini Flat Triac Optocouplers

Random Phase							
Part Number	Features	Input Trigger Current $V_O = 3V$	Isolation Voltage	Continuous Forward Current	V_R $I_R = 10\mu A$	I_{DRM} Peak Off State Current $V_{DRM} = \text{Rated } V_{DRM}$	V_{DRM} Peak Blocking Voltage $I_{DRM} = 0.1mA$
		Max (mA)	Min (KV _{RMS})	Max (mA)	Min (V)	Max (nA)	Max (V)
MF3009	Infrared Emitting Diode and Light Activated Random Phase Bilateral Switch in a space saving Mini Flat Package	30	3.75	60	5	100	250
MF3010		15					
MF3011		10					
MF3012		5					
MF3020		30					
MF3021		15					
MF3022		10					400
MF3023		5					
MF3024		3					
MF3051		15					
MF3052		10					
MF3053		5					
							600

Zero Crossing								
Part Number	Features	Input Trigger Current $V_O = 3V$	Isolation Voltage	Continuous Forward Current	V_R $I_R = 10\mu A$	I_{DRM} Peak Off State Current $V_{DRM} = \text{Rated } V_{DRM}$	V_{DRM} Peak Blocking Voltage $I_{DRM} = 0.1mA$	
		Max (mA)	Min (KV _{RMS})	Max (mA)	Min (V)	Max (nA)	Max (V)	
MF3030	Infrared Emitting Diode and Light Activated Zero Crossing Bilateral Switch in a space saving Mini Flat Package	30	3.75	60	5	100	250	
MF3031		15						
MF3032		10						
MF3033		5						
MF3040		30						
MF3041		15						
MF3042		10					400	
MF3043		5						
MF3060		30						
MF3061		15						
MF3062		10						
MF3063		5						
MF3080		30					600	
MF3081		15						
MF3082		10						
MF3083		5						
								800



4 Pin Mini Flat Optocouplers

Transistor Output								
Part Number	Features	Current Transfer Ratio $I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$	Isolation Voltage	Continuous Forward Current	V_F $I_F = 20\text{mA}$	BV_{CEO} $I_C = 0.5\text{mA}$	I_{CEO} $V_{CE} = 20\text{V}$	$V_{CE(SAT)}$ $I_F = 20\text{mA}$ $I_C = 1\text{mA}$
		Min (%)	Min (KV _{RMS})	Max (mA)	Max (V)	Min (V)	Max (nA)	Max (V)
IS121	Single Channel Optocoupler with Phototransistor Output	50-600	3.75	50	1.4	80	100	0.2
IS124								
IS181								
IS181A								
IS181B								
IS181C								
IS181D								
IS181GB								
IS181GR								
IS183		50 ($I_F = 5\text{mA}$) 50 ($I_F = 0.5\text{mA}$)			1.6 ($I_F = 10\text{mA}$)	80 ($V_{CE} = 48\text{V}$)	0.3 $I_F = 20\text{mA}$ $I_C = 1\text{mA}$	
IS2701-1		50-600			1.4	100	0.2	
IS357								
IS357A								
IS357B								
IS357C								
IS357D								

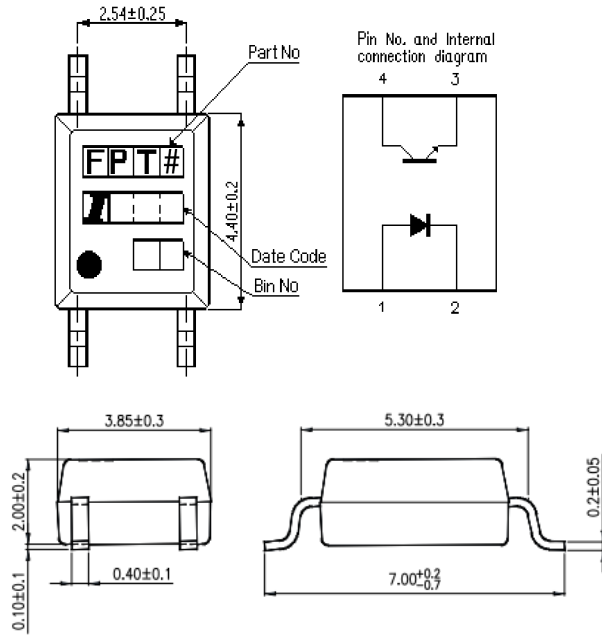
AC Input								
Part Number	Features	Current Transfer Ratio $I_F = \pm 1\text{mA}$ $V_{CE} = 5\text{V}$	Isolation Voltage	Continuous Forward Current	V_F $I_F = \pm 20\text{mA}$	BV_{CEO} $I_C = 0.1\text{mA}$	I_{CEO} $V_{CE} = 20\text{V}$	$V_{CE(SAT)}$ $I_F = \pm 20\text{mA}$ $I_C = 1\text{mA}$
		Min (%)	Min (KV _{RMS})	Max (mA)	Max (V)	Min (V)	Max (nA)	Max (V)
IS126	Single Channel Optocoupler with two Infrared LED's wired in Inverse Parallel allowing Operation with AC Input Voltage	20-400	3.75	± 50	1.4	35	100	0.2
IS180								
IS2705-1								
IS354								
IS354A								

Darlington Output								
Part Number	Features	Current Transfer Ratio $I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$	Isolation Voltage	Continuous Forward Current	V_F $I_F = 20\text{mA}$	BV_{CEO} $I_C = 0.1\text{mA}$	I_{CEO} $V_{CE} = 20\text{V}$	$V_{CE(SAT)}$ $I_F = 20\text{mA}$ $I_C = 1\text{mA}$
		Min (%)	Min (KV _{RMS})	Max (mA)	Max (V)	Min (V)	Max (nA)	Max (V)
IS2702-1	Single Channel Optocoupler with Photo-Darlington Transistor	600-7500	3.75	50	1.4	35	1000	1
IS355								

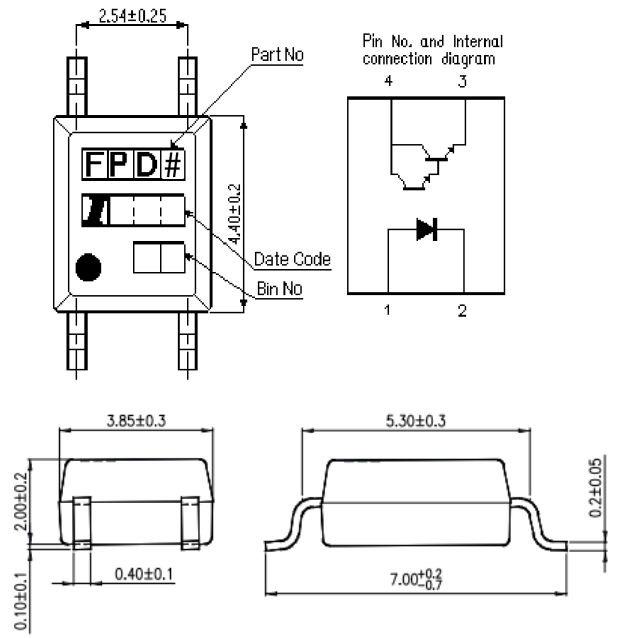
Darlington Output - High Voltage								
Part Number	Features	Current Transfer Ratio $I_F = 1\text{mA}$ $V_{CE} = 2\text{V}$	Isolation Voltage	Continuous Forward Current	V_F $I_F = 20\text{mA}$	BV_{CEO} $I_C = 0.1\text{mA}$	I_{CEO} $V_{CE} = 200\text{V}$	$V_{CE(SAT)}$ $I_F = 20\text{mA}$ $I_C = 100\text{mA}$
		Min (%)	Min (KV _{RMS})	Max (mA)	Max (V)	Min (V)	Max (nA)	Max (V)
IS127	Single Channel Optocoupler with Photo-Darlington Transistor with High Output Voltage	1000	3.75	50	1.4	300	200	1.2
IS2732-1								
IS452								

4 Pin Mini Flat Optocouplers

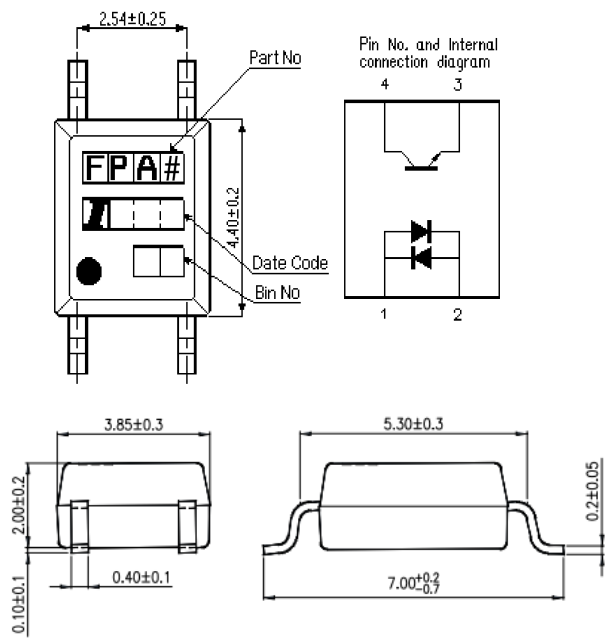
Transistor Output



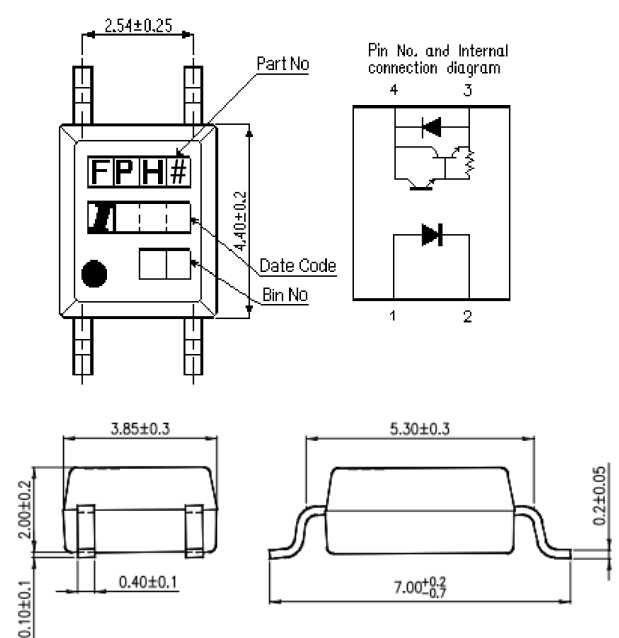
Darlington Output



AC Input



Darlington Output - High Voltage



= Internal reference

Half Pitch Optocouplers

4 Pin Transistor Output

Part Number	Features	Current Transfer Ratio $I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$ Min (%)	Isolation Voltage Min (KV _{RMS})	Continuous Forward Current Max (mA)	V_F $I_F = 20\text{mA}$ Max (V)	BV_{CEO} $I_C = 0.1\text{mA}$ Min (V)	I_{CEO} $V_{CE} = 20\text{V}$ Max (nA)	$V_{CE(SAT)}$ $I_F = 10\text{mA}$ $I_C = 1\text{mA}$ Max (V)
IS281	Single channel Optocoupler with Phototransistor Output	50-600	3.75	50	1.4	80	100	0.2
IS281A		80-160						
IS281B		130-260						
IS281C		200-400						
IS281D		300-600						
IS281E		100-200						
IS281F		150-300						
IS281GB		100-600						
IS281GR		100-300 ($I_F = 10\text{mA}$)						
ISP281		50-600						
ISP281A		80-160						
ISP281B		130-260						
ISP281C		200-400						
ISP281D		300-600						
ISP281E		100-200						
ISP281GB		100-600						
ISP281GR		100-300						
IS283		50 50 ($I_F = 0.5\text{mA}$)			1.6 ($I_F = 10\text{mA}$)	80 ($I_C = 0.5\text{mA}$)	80 ($V_{CE} = 48\text{V}$)	0.3 $I_F = 8\text{mA}$
IS2801-1		50-600			1.4	80	100	0.2
IS3H7		50-600 40-320 ($I_F = 10\text{mA}$)						

4 Pin AC Input

Part Number	Features	Current Transfer Ratio $I_F = \pm 1\text{mA}$ $V_{CE} = 5\text{V}$ Min (%)	Isolation Voltage Min (KV _{RMS})	Continuous Forward Current Max (mA)	V_F $I_F = \pm 20\text{mA}$ Max (V)	BV_{CEO} $I_C = 0.1\text{mA}$ Min (V)	I_{CEO} $V_{CE} = 20\text{V}$ Max (nA)	$V_{CE(SAT)}$ $I_F = \pm 20\text{mA}$ $I_C = 1\text{mA}$ Max (V)	
IS1600	Single channel Optocoupler with Phototransistor Output	20-300	3.75	± 50	1.4	80	100	0.2	
IS280								100-300	0.4 $I_F = \pm 8\text{mA}$ $I_C = 2.4\text{mA}$
IS280GR		20-300							0.2
IS2805									
IS3H4									

4 Pin Darlington Output

Part Number	Features	Current Transfer Ratio $I_F = 1\text{mA}$ $V_{CE} = 2\text{V}$ Min (%)	Isolation Voltage Min (KV _{RMS})	Continuous Forward Current Max (mA)	V_F $I_F = 5\text{mA}$ Max (V)	BV_{CEO} $I_C = 0.1\text{mA}$ Min (V)	I_{CEO} $V_{CE} = 40\text{V}$ Max (nA)	$V_{CE(SAT)}$ $I_F = 1\text{mA}$ $I_C = 2\text{mA}$ Max (V)
IS2802-1	Single channel Optocoupler with Photo-Darlington Transistor Output	200 2000 (Typical)	3.75	50	1.4	40	400	1.0

Half Pitch Optocouplers

8 Pin Transistor Output

Part Number	Features	Current Transfer Ratio $I_F = 1\text{mA}$ $V_{CE} = 5\text{V}$ Min (%)	Isolation Voltage Min (KV _{RMS})	Continuous Forward Current Max (mA)	V_F $I_F = 10\text{mA}$ Max (V)	BV_{CEO} $I_C = 0.1\text{mA}$ Min (V)	I_{CEO} $V_{CE} = 10\text{V}$ Max (nA)	$V_{CE(SAT)}$ $I_F = 10\text{mA}$ $I_C = 2.4\text{mA}$ Max (V)
MOCD207	Dual channel Optocoupler with Phototransistor Output	34 100-200 $I_F = 10\text{mA}$	3.75	60	1.5	80	50	0.4
MOCD217		100						

16 Pin Transistor Output

Part Number	Features	Current Transfer Ratio $I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$ Min (%)	Isolation Voltage Min (KV _{RMS})	Continuous Forward Current Max (mA)	V_F $I_F = 20\text{mA}$ Max (V)	BV_{CEO} $I_C = 0.1\text{mA}$ Min (V)	I_{CEO} $V_{CE} = 50\text{V}$ Max (nA)	$V_{CE(SAT)}$ $I_F = 8\text{mA}$ $I_C = 2.4\text{mA}$ Max (V)
IS281-4	Quad channel Optocoupler with Phototransistor Output	50-600	3.75	50	1.5	80	100	0.4
IS2801-4								
IS4100								

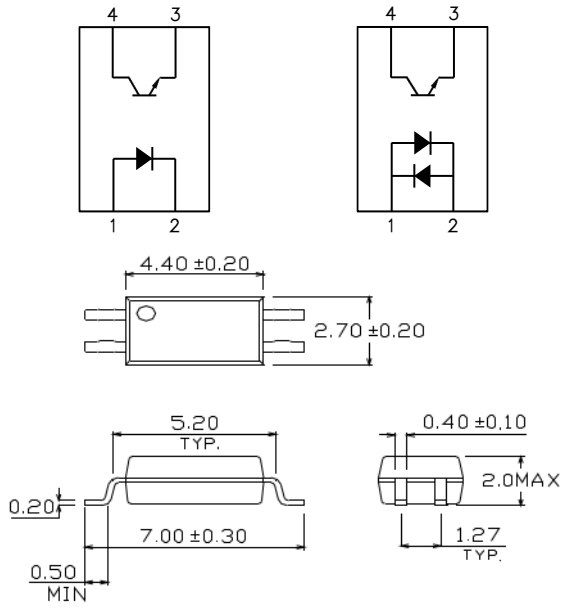
16 Pin AC Input

Part Number	Features	Current Transfer Ratio $I_F = \pm 1\text{mA}$ $V_{CE} = 5\text{V}$ Min (%)	Isolation Voltage Min (KV _{RMS})	Continuous Forward Current Max (mA)	V_F $I_F = \pm 20\text{mA}$ Max (V)	BV_{CEO} $I_C = 0.1\text{mA}$ Min (V)	I_{CEO} $V_{CE} = 50\text{V}$ Max (nA)	$V_{CE(SAT)}$ $I_F = \pm 8\text{mA}$ $I_C = 2.4\text{mA}$ Max (V)
IS280-4	Quad channel Optocoupler with Phototransistor Output	20-400	3.75	±50	1.4	80	100	0.4
IS280-4GR		100-300						
IS2805-4		20-400						

▶ DRAWINGS OVERLEAF

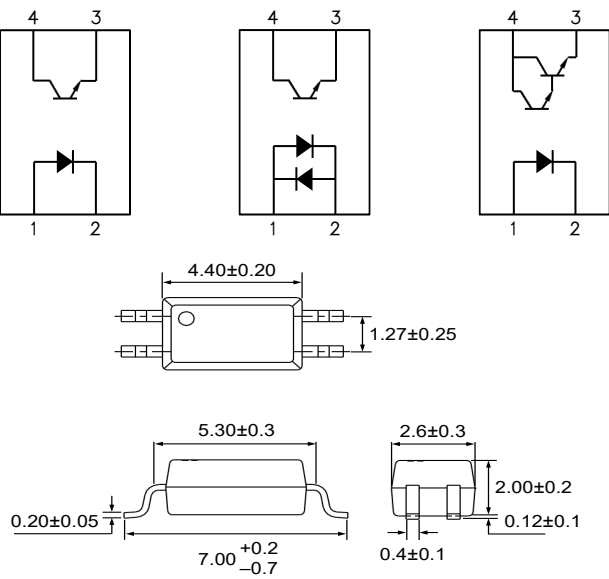
Half Pitch Optocouplers

4 Pin Transistor Output / 4 Pin AC Input



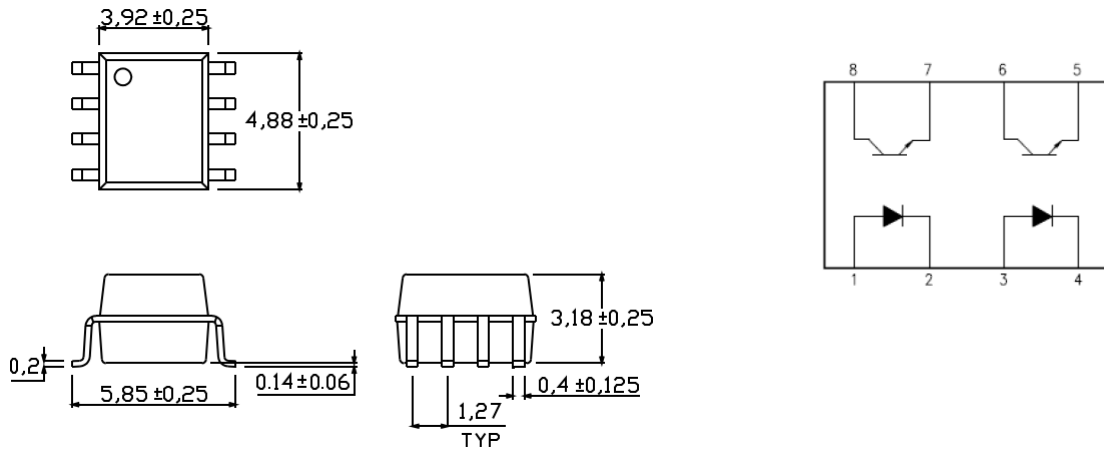
Note : IS283, ISP281, IS280GR, IS2802-1 - Refer to related drawing

IS283, ISP281, IS280GR, IS2802-1

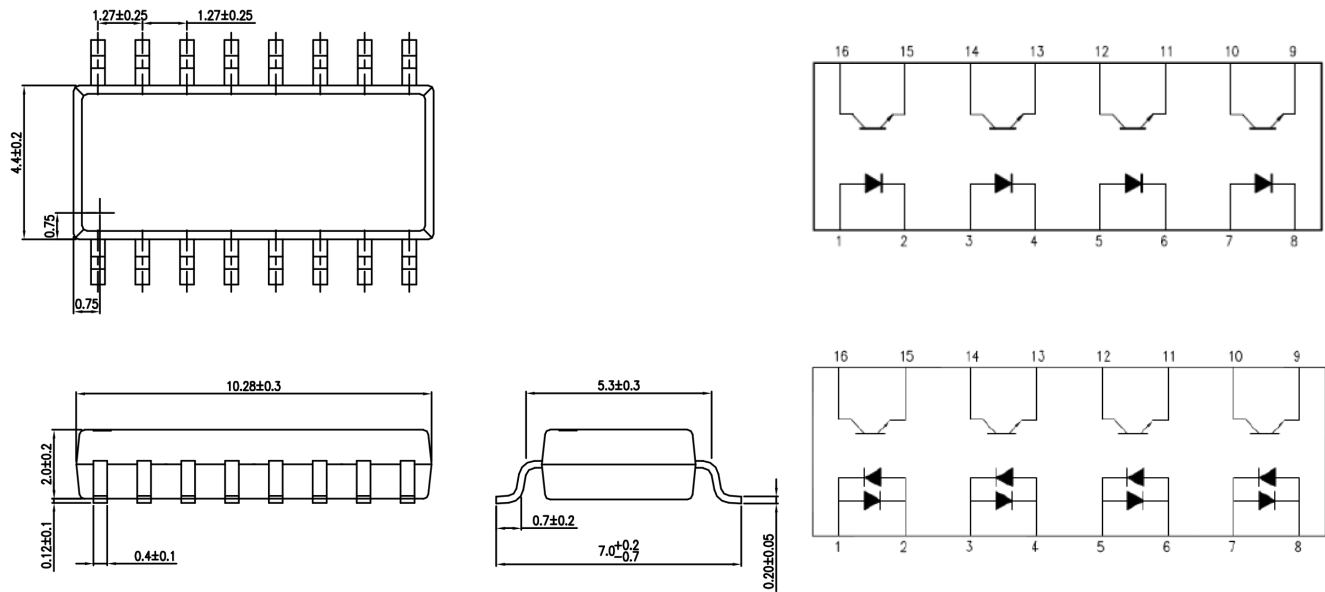


Half Pitch Optocouplers

8 Pin Transistor Output



16 Pin Transistor Output / 16 Pin AC Input

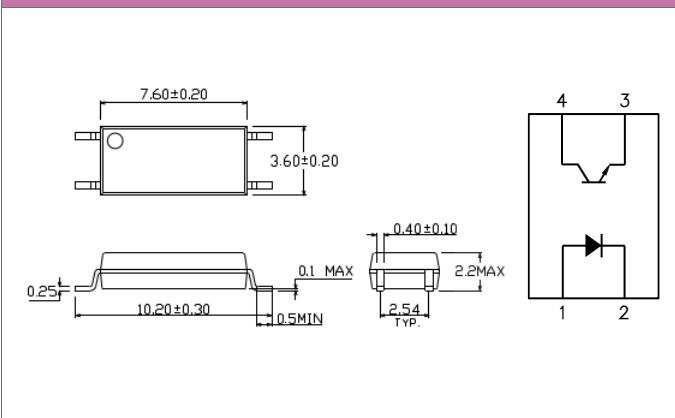


Long Creepage Optocouplers

4 Pin Long Creepage Transistor Output

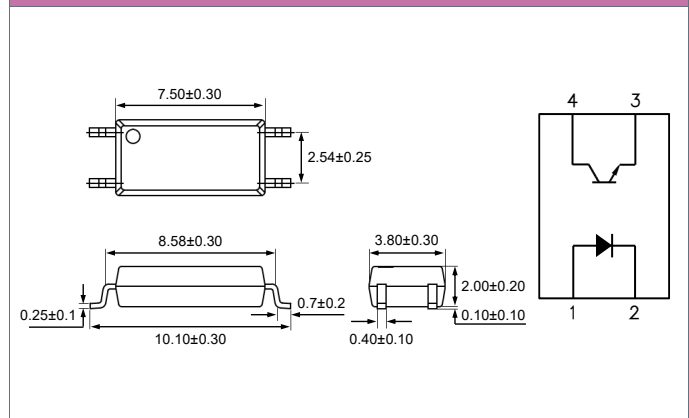
Part Number	Features	Current Transfer Ratio $I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$	Isolation Voltage	Continuous Forward Current	V_F $I_F = 50\text{mA}$	BV_{CEO} $I_C = 0.1\text{mA}$	I_{CEO} $V_{CE} = 20\text{V}$	$V_{CE(SAT)}$ $I_F = 10\text{mA}$ $I_C = 1\text{mA}$	
		Min (%)	Min (KV _{RMS})	Max (mA)	Max (V)	Min (V)	Max (nA)	Max (V)	
IS383	Single channel Optocoupler with Phototransistor Output	50 50 ($I_F = 0.5\text{mA}$)	5	50	1.6 ($I_F = 10\text{mA}$)	80 ($I_C = 0.5\text{mA}$)	80 ($V_{CE} = 48\text{V}$)	0.3 $I_F = 8\text{mA}$	
ISLT1001		50-600							
ISLT1002		63-125 $I_F = 10\text{mA}$, $V_{CE} = 5\text{V}$ 22							
ISLT1003		100-200 $I_F = 10\text{mA}$, $V_{CE} = 5\text{V}$ 34							
ISLT1004		160-320 $I_F = 10\text{mA}$, $V_{CE} = 5\text{V}$ 56		60	1.5	80	100	0.3	
ISLT1007		80-160							
ISLT1008		130-260							
ISLT1009		200-400							

4 Pin Long Creepage Transistor Output



Note : IS383 - Refer to related drawing

IS383



IGBT/MOSFET/IPM Gate Drive Optocoupler

Single Channel IGBT / MOSFET Gate Drive

Part Number	Features	Output Current	Isolation Voltage	T _{OP} (°C)	V _{CC} Max (V)	UVLO+	UVLO-	I _{FLH}	V _{FHL}	t _{PLH} / t _{PHL}	CM _H / CM _L
		Max (A)	Min (KV _{RMS})			V _O > 5V I _F = 10mA	V _O < 5V I _F = 10mA	V _O > 5V	V _O < 5V	V _{CC} = 15-30V I _F = 7-16mA R _g = 10Ω C _g = 25nF f = 10kHz D.C. = 50%	V _{CC} = 30V I _F = 10-16mA V _F = 0V V _{OH} > 15V V _{OL} < 1V V _{CM} = 1500Vp-p
ICPL3120	Single Channel Gate Drive Optocoupler with UVLO Totem Pole Rail to Rail Output	±2.5	5	-40 - 105	35 Note	11.0 - 13.5	9.5 - 12.0	5	0.8	500	35
ICPL3150	Single Channel Gate Drive Optocoupler with Totem Pole Rail to Rail Output	±1.0				Not Applicable	Not Applicable				

Note : V_{CC} must be bypassed by a minimum 0.1μF capacitor

Single Channel IGBT / MOSFET Gate Drive Stretched SO6

Part Number	Features	Output Current	Isolation Voltage	T _{OP} (°C)	V _{CC} Max (V)	UVLO+	UVLO-	I _{FLH}	V _{FHL}	t _{PLH} / t _{PHL}	CM _H / CM _L
		Max (A)	Min (KV _{RMS})			V _O > 5V I _F = 10mA	V _O < 5V I _F = 10mA	V _O > 5V	V _O < 5V	V _{CC} = 15-30V I _F = 7-16mA R _g = 47Ω C _g = 3nF f = 10kHz D.C. = 50%	V _{CC} = 30V I _F = 10-16mA V _F = 0V V _{OH} > 15V V _{OL} < 1V V _{CM} = 1500Vp-p
IS314P	Single Channel Gate Drive Optocoupler with UVLO Totem Pole Rail to Rail Output	±1.0	5	-40 - 105	35 Note	7.8	6.7	5	0.8	200	20

Note : V_{CC} must be bypassed by a minimum 0.1μF capacitor

Single Channel IGBT / MOSFET Gate Drive Stretched SO6 (Wide Lead Separation)

Part Number	Features	Output Current	Isolation Voltage	T _{OP} (°C)	V _{CC} Max (V)	UVLO+	UVLO-	I _{FLH}	V _{FHL}	t _{PLH} / t _{PHL}	CM _H / CM _L
		Max (A)	Min (KV _{RMS})			V _O > 5V I _F = 10mA	V _O < 5V I _F = 10mA	V _O > 5V	V _O < 5V	V _{CC} = 15-30V I _F = 7-16mA R _g = 47Ω C _g = 3nF f = 10kHz D.C. = 50%	V _{CC} = 30V I _F = 10-16mA V _F = 0V V _{OH} > 15V V _{OL} < 1V V _{CM} = 1500Vp-p
IS314W	Single Channel Gate Drive Optocoupler with UVLO Totem Pole Rail to Rail Output	±1.0	5	-40 - 105	35 Note	7.8	6.7	5	0.8	200	20
IS341W		±3.0				11.0 - 13.5	9.5 - 12.0			200 R _g = 10Ω C _g = 25nF	

Note : V_{CC} must be bypassed by a minimum 0.1μF capacitor

IGBT/MOSFET/IPM Gate Drive Optocoupler

Single Channel IPM / Gate Drive

Part Number	Features	Output Current	Isolation Voltage	T _{OP}	V _{CC}	I _{TH}	Current Transfer Ratio	V _{OL}	t _{PLH} / t _{PHL}	CM _H / CM _L
		Max (mA)	Min (KV _{RMS})	(°C)	Max (V)	Max (mA)	Min (%)	Max (V)	Max (μs)	Min (KV/μs)
ICPL4506	Single Channel IPM/Gate Drive Optocoupler with Open Collector Photo Detector Output	15	5	-40 – 100	30 Note	5	44	0.4	t _{PLH} 550 t _{PHL} 400	15

Note : V_{CC} must be bypassed by a minimum 0.1μF capacitor

Single Channel IPM / Gate Drive Stretched SO6

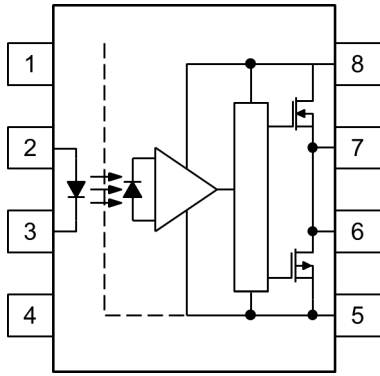
Part Number	Features	Output Current	Isolation Voltage	T _{OP}	V _{CC}	UVLO	I _{FLH}	V _{FHL}	t _{PLH} / t _{PHL}	CM _H / CM _L
		Max (mA)	Min (KV _{RMS})	(°C)	Max (V)	(V)	Max (mA)	Min (V)	Max (ns)	Min (KV/μs)
IS480P	Single Channel IPM/Gate Drive Optocoupler with Schmitt Trigger Totem Pole Output	±50	5	-40 – 105	35 Note	Not Applicable	1.5	0.8	t _{PLH} 220 t _{PHL} 200	20

Note : V_{CC} must be bypassed by a minimum 0.1μF capacitor

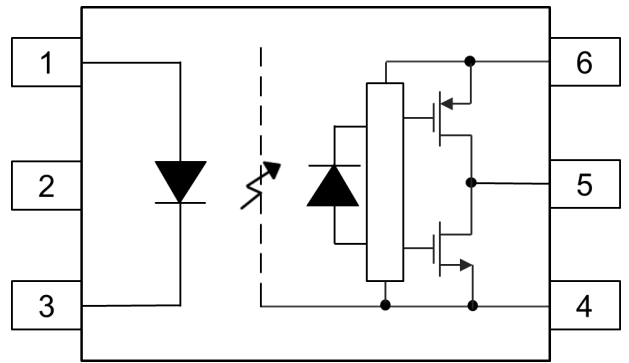
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IGBT/MOSFET/IPM Gate Drive Optocoupler

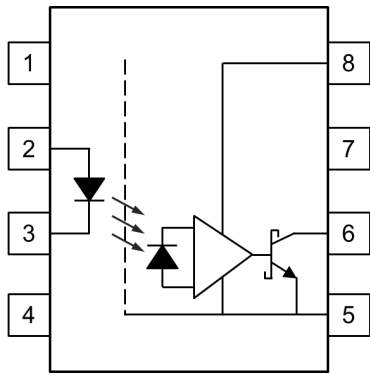
ICPL3120, ICPL3150



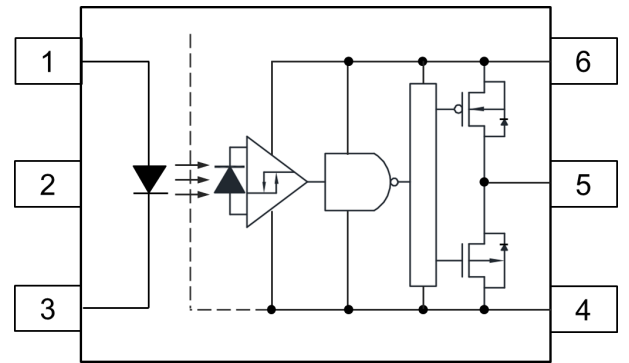
IS314P, IS314W, IS341W



CPL4506

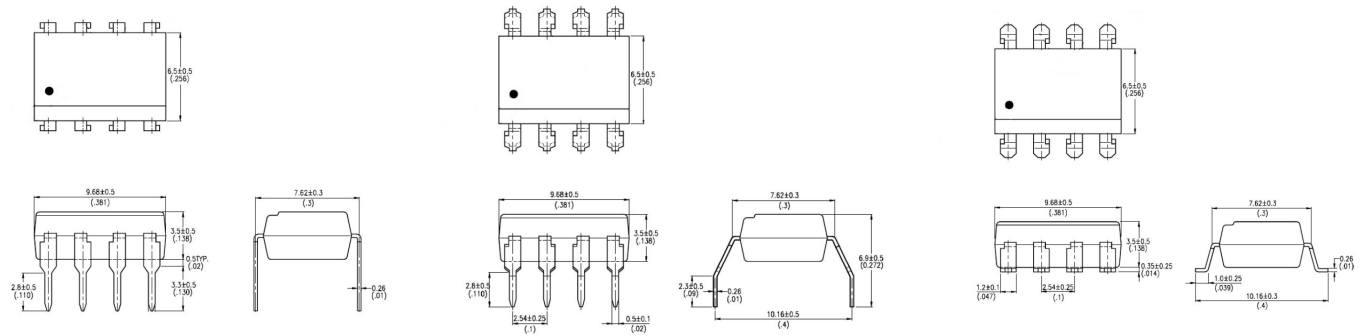


IS480P

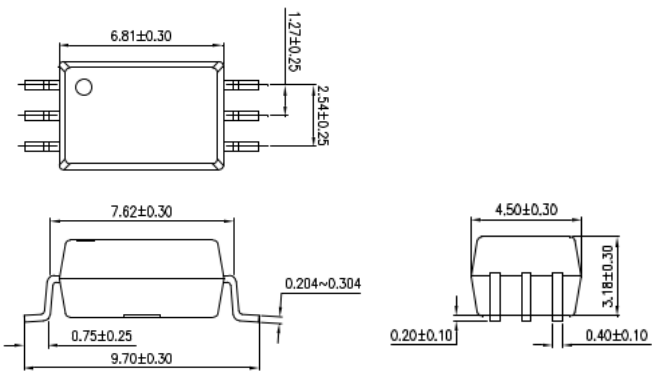


IGBT/MOSFET/IPM Gate Drive Optocoupler

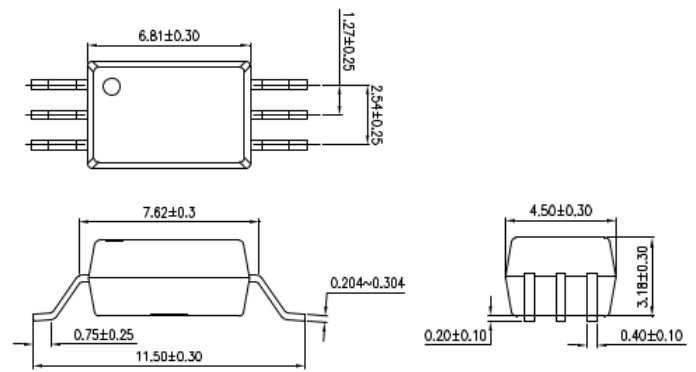
8 Pin DIL Packages



Stretched SO6 Package



Stretched SO6 (Wide Lead Separation) Package



SMART IGBT/MOSFET Gate Drive Optocoupler

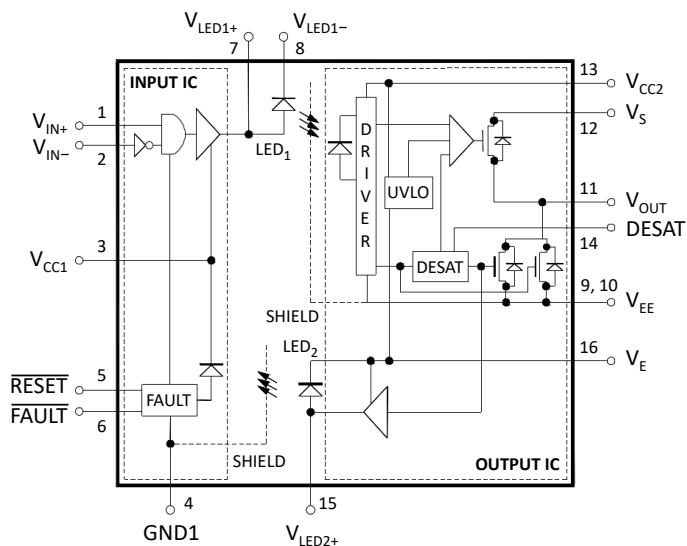
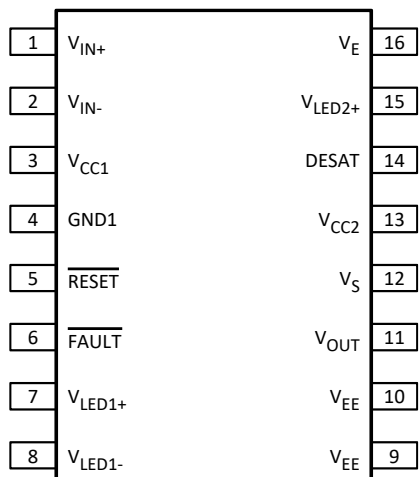
SMART Gate Drive

Part Number	Features	Output Current	Isolation Voltage	T _{OP} (°C)	V _{CC1}	V _{CC2} -V _{EE}	V _{DESAT}	V _{CLAMP}	UVLO+	UVLO-	t _{PLH} / t _{PHL}	CM _H / CM _L
		Max (A)	Min (KV _{RMS})		Input Supply Voltage Max (V)	Total Output Supply Voltage Max (V)	DESAT Threshold (V)	Miller Clamp Threshold Voltage (V)	V _O > 5V I _F = 10mA (V)	V _O < 5V I _F = 10mA Max (V)	V _{CC1} = 5V V _{CC2} -V _{EE} = 30V R _g = 10Ω C _g = 10nF f = 10kHz D.C. = 50% Max (ns)	V _{CC1} = 5V V _{CC2} = 25V V _{EE} = GND V _{CM} = 1500Vp-p Min (KV/μs)
ICPL316J	Gate Drive Optocoupler with Integrated Desaturation Detection and an Optically Isolated Fault Status Feedback	±5.0	5	-40 – 100	5.5	35	6.5 – 7.5	NA	11.6–13.5	12.4	500	15
ICPL332J	Gate Drive Optocoupler with Integrated Desaturation Detection and Miller Clamping and an Optically Isolated Fault Status Feedback	±5.0	5	-40 – 105	7	35	6 – 7.5	2.0 typ	10.5–12.5	9.2–11.1	200 V _{CC2} -V _{EE} = 30V R _g = 10Ω C _g = 10nF f = 10kHz D.C. = 50%	50 V _{CC2} = 30V R _F = 2.1kΩ C _F = 1nF V _{CM} = 1500Vp-p Split Resistors Network with Ratio 1:1 at Input LED1

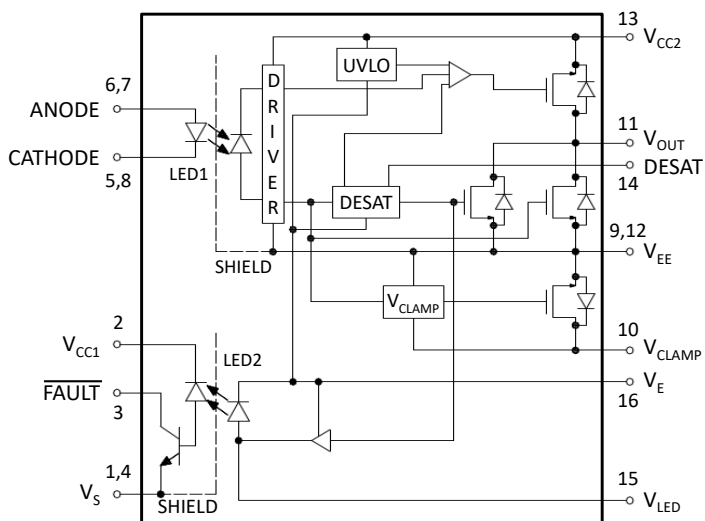
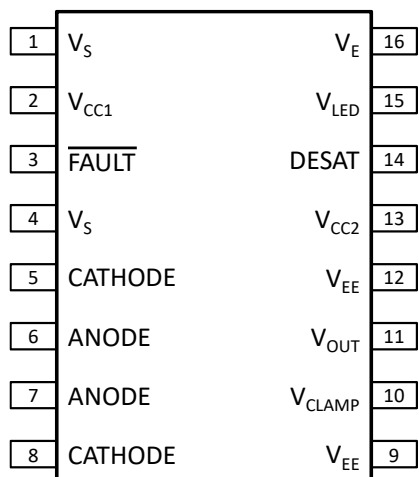
▶ DRAWINGS OVERLEAF

SMART IGBT/MOSFET Gate Drive Optocoupler

ICPL316J

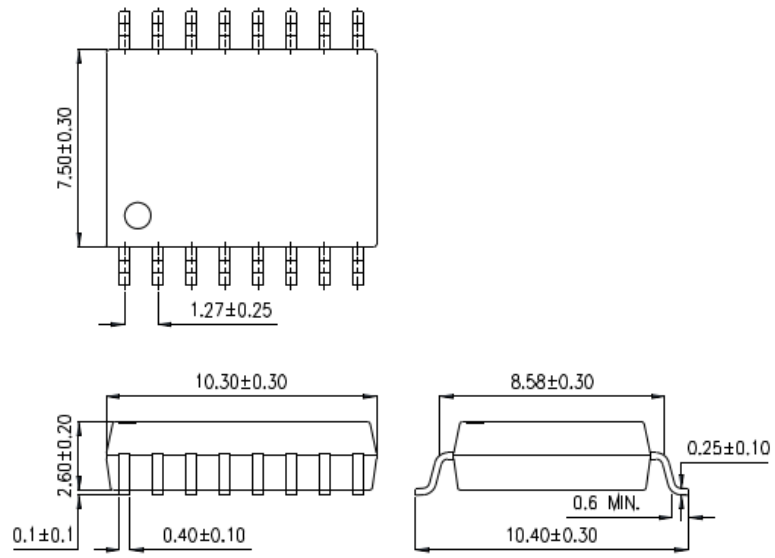


ICPL332J



SMART IGBT/MOSFET Gate Drive Optocoupler

Package



1Mbits/s High Speed Optocouplers

Single Channel

Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	I _B	Current Transfer Ratio	V _{OL}	t _{PLH} / t _{PHL}	CM _H / CM _L
							V _{CC} = 4.5V I _F = 16mA V _O = 0.4V	V _{CC} = 4.5V I _F = 16mA I _O = 1.1mA	V _{CC} = 5V I _F = 16mA R _L = 4.1kΩ	V _{CC} = 5V I _F = 0mA / 16mA V _{OH} > 2V V _{OL} < 0.8V R _L = 4.1kΩ
		Min (KV _{RMS})	(°C)	Max (V)	Max (V)	Max (mA)	(%)	Max (V)	Max (μs)	Min (V/μs)
6N135	Single Channel Optocoupler with High Speed Photo Detector Transistor Output	5	-55 – 100	30	20	5	7 – 50	0.4	1.5	1000
6N136						NC	19 – 50	0.4 I _O = 3mA	0.8 R _L = 1.9kΩ	1000 R _L = 1.9kΩ
ICPL4502										15000 R _L = 1.9kΩ V _{CM} = 1500Vp-p
ICPL4503										

Note : V_{CC} is recommended to be bypassed by a 0.1μF capacitor

Single Channel Wide Body

Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	I _B	Current Transfer Ratio	V _{OL}	t _{PLH} / t _{PHL}	CM _H / CM _L
							V _{CC} = 4.5V I _F = 16mA V _O = 0.4V	V _{CC} = 4.5V I _F = 16mA I _O = 1.1mA	V _{CC} = 5V I _F = 16mA R _L = 4.1kΩ	V _{CC} = 5V I _F = 0mA / 16mA V _{OH} > 2V V _{OL} < 0.8V R _L = 4.1kΩ
		Min (KV _{RMS})	(°C)	Max (V)	Max (V)	Max (mA)	(%)	Max (V)	Max (μs)	Min (V/μs)
ICPLW135	Single Channel Optocoupler with High Speed Photo Detector Transistor Output	5	-55 – 100	30	20	5	7 – 50	0.4	1.5	1000
ICPLW136						NC	19 – 50	0.4 I _O = 3mA	0.8 R _L = 1.9kΩ	1000 R _L = 1.9kΩ
ICPLW4503										15000 R _L = 1.9kΩ V _{CM} = 1500Vp-p

Note : V_{CC} is recommended to be bypassed by a 0.1μF capacitor

Single Channel Half Pitch

Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	I _B	Current Transfer Ratio	V _{OL}	t _{PLH} / t _{PHL}	CM _H / CM _L
							V _{CC} = 4.5V I _F = 16mA V _O = 0.4V	V _{CC} = 4.5V I _F = 16mA I _O = 1.1mA	V _{CC} = 5V I _F = 16mA R _L = 4.1kΩ	V _{CC} = 5V I _F = 0mA / 16mA V _{OH} > 2V V _{OL} < 0.8V R _L = 4.1kΩ
		Min (KV _{RMS})	(°C)	Max (V)	Max (V)	Max (mA)	(%)	Max (V)	Max (μs)	Min (V/μs)
ICPL0500	Single Channel Optocoupler with a High Speed Photo Detector Transistor Output	3.75	-55 – 100	30	20	5	7 – 50	0.4	1.5	1000 Typical
ICPL0501						NC	19 – 50	0.4 I _O = 3mA	0.8 R _L = 1.9kΩ	1000 Typical R _L = 1.9kΩ
ICPL0452										15000 R _L = 1.9kΩ V _{CM} = 1500Vp-p
ICPL0453										

Note : V_{CC} is recommended to be bypassed by a 0.1μF capacitor

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1Mbits/s High Speed Optocouplers

Single Channel Half Pitch 5 Pin

Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	I _B	Current Transfer Ratio	V _{OL}	t _{PLH} / t _{PHL}	CM _H / CM _L
		Min (KV _{RMS})	(°C)	Max (V)	Max (V)	Max (mA)	(%)	Max (V)	Max (μs)	Min (V/μs)
ICPLM452	Single Channel Optocoupler with High Speed Photo Detector Transistor Output	3.75	-40 – 85	30	20	NC	20 – 50	0.4	0.8	5000
ICPLM453				Note						15000 V _{CM} = 1500Vp-p

Note : V_{CC} is recommended to be bypassed by a 0.1μF capacitor

Single Channel Stretched Body SO6 (Wide Lead Separation)

Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	I _B	Current Transfer Ratio	V _{OL}	t _{PLH} / t _{PHL}	CM _H / CM _L
		Min (KV _{RMS})	(°C)	Max (V)	Max (V)	Max (mA)	(%)	Max (V)	Max (μs)	Min (V/μs)
ICPLW50L	Single Channel Optocoupler with High Speed Photo Detector Transistor Output	5	-40 – 105	30 Note	20	NC	I _F = 3mA V _O = 0.4V V _{CC} = 3.3V / 5.5V	I _F = 3mA I _O = 3mA V _{CC} = 3.3V / 5V	I _F = 3mA C _L = 15pF f = 10kHz Duty Cycle = 50% V _{CC} = 3.3V R _L = 1.8kΩ or V _{CC} = 5V R _L = 2.9kΩ	I _F = 0mA / 3mA V _{OH} > 2V V _{OL} < 0.8V V _{CM} = 1500Vp-p V _{CC} = 3.3V or 5V R _L = 1.8kΩ or 2.9kΩ

Note : V_{CC} is recommended to be bypassed by a 0.1μF capacitor

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1Mbits/s High Speed Optocouplers

Dual Channel

Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	I _B	Current Transfer Ratio	V _{OL}	t _{PLH} / t _{PHL}	CM _H / CM _L
							V _{CC} = 4.5V I _F = 16mA V _O = 0.4V	V _{CC} = 4.5V I _F = 16mA I _O = 1.1mA	V _{CC} = 5V I _F = 16mA R _L = 4.1kΩ	V _{CC} = 5V I _F = 0mA / 16mA V _{OH} > 2V V _{OL} < 0.8V R _L = 4.1kΩ
		Min (KV _{RMS})	(°C)	Max (V)	Max (V)	Max (mA)	(%)	Max (V)	Max (μs)	Min (V/μs)
ICPL2530	Dual Channel Optocoupler with High Speed Photo Detector Transistor Output	5	-40 – 100	30	20	NC	7 – 50	0.5	1.5	1000
ICPL2531							19 – 50	0.5 I _O = 3mA	0.8 R _L = 1.9kΩ	1000 R _L = 1.9kΩ V _{CM} = 1000Vp-p

Note : V_{CC} is recommended to be bypassed by a 0.1μF capacitor

Dual Channel Half Pitch

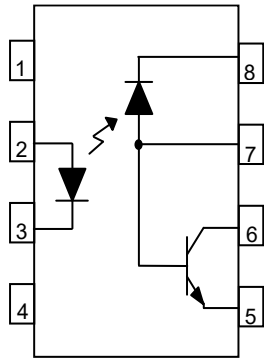
Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	I _B	Current Transfer Ratio	V _{OL}	t _{PLH} / t _{PHL}	CM _H / CML
							V _{CC} = 4.5V I _F = 16mA V _O = 0.4V	V _{CC} = 4.5V I _F = 16mA I _O = 1.1mA	V _{CC} = 5V I _F = 16mA R _L = 4.1kΩ	V _{CC} = 5V I _F = 0mA / 16mA V _{OH} > 2V V _{OL} < 0.8V R _L = 4.1kΩ V _{CM} = 10Vp-p
		Min (KV _{RMS})	(°C)	Max (V)	Max (V)	Max (mA)	(%)	Max (V)	Max (μs)	Min (V/μs)
ICPL0530	Dual Channel Optocoupler with High Speed Photo Detector Transistor Output	3.75	-55 – 100	30	20	NC	7 – 50	0.4	1.5	1000
ICPL0531							19 – 50	0.4 I _O = 3mA	0.8 R _L = 1.9kΩ	1000 R _L = 1.9kΩ V _{CM} = 1500Vp-p

Note : V_{CC} is recommended to be bypassed by a 0.1μF capacitor

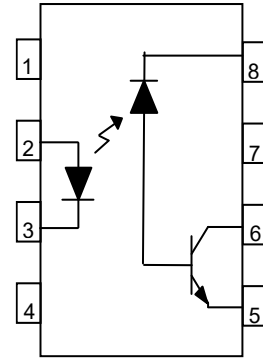
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1Mbits/s High Speed Optocouplers

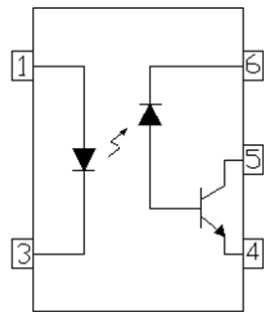
Single Channel (Base Accessible)



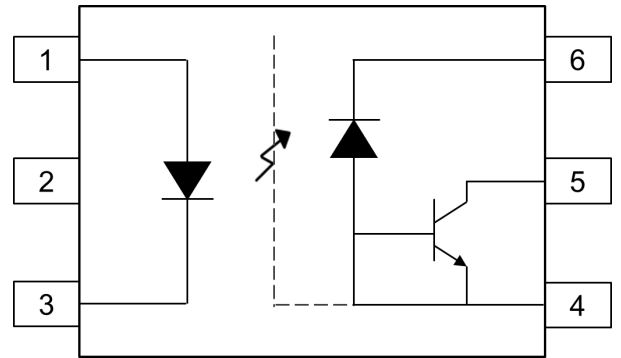
Single Channel



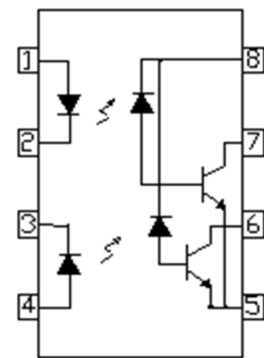
Single Channel 5 Pin



Single Channel Stretched Body SO6 (Wide Lead Separation)

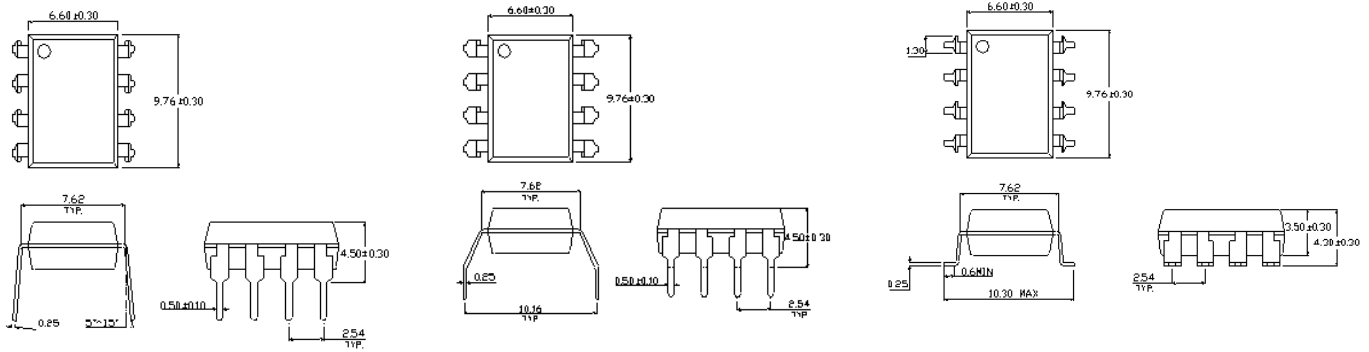


Dual Channel

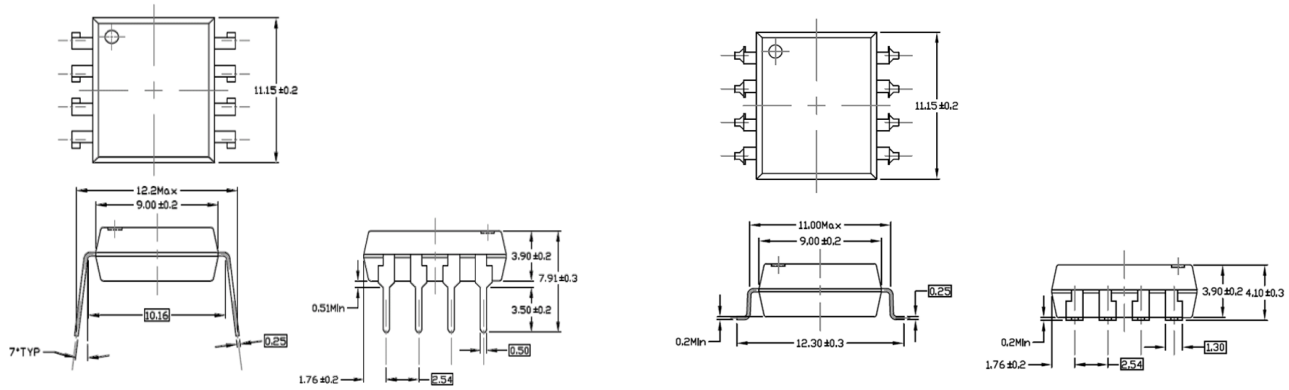


1Mbits/s High Speed Optocouplers

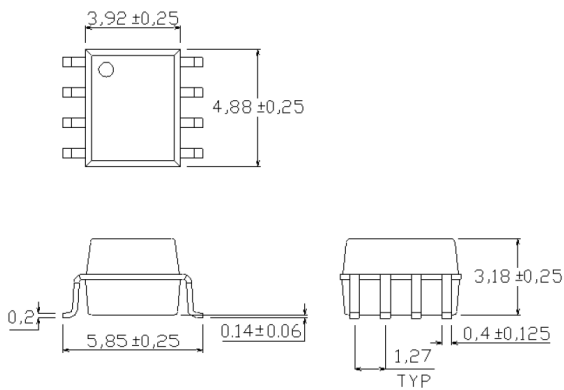
8 Pin DIL Packages



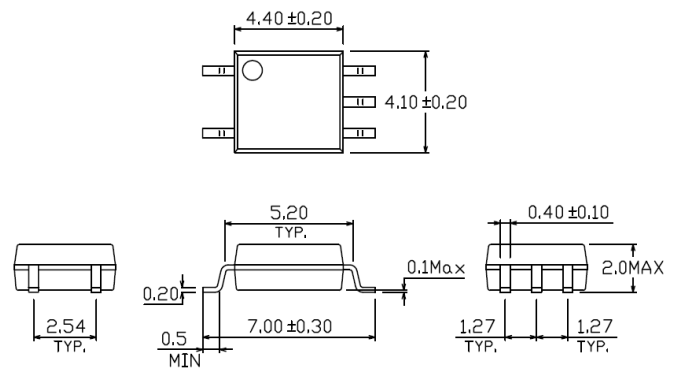
Wide Body Packages



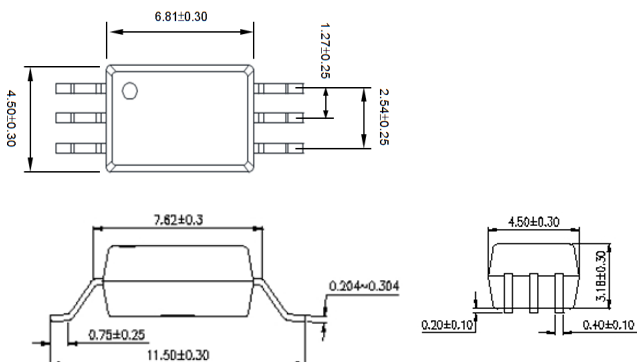
Half Pitch Package



Half Pitch 5 Pin Package



Stretched Body SO6 (Wide Lead Separation) Package



10Mbps/s High Speed Optocouplers

Single Channel

Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	I _{FT}	V _{EH}	V _{EL}	V _{OL}	t _{PHL} / t _{PLH}	CM _H / CM _L
											Min (KV _{RMS})
6N137	Single Channel Optocoupler with a High Speed Integrated Photo Detector Strobable Logic Gate Output	5	-40 – 85	7.0	7.0	5	2.0	0.8	0.6	75	5000 Ref
ICPL2601											5000 V _{CM} = 50Vp-p
ICPL2611											10000 V _{CM} = 400Vp-p

Note : V_{CC} must be bypassed by a minimum 0.1μF capacitor

Single Channel Wide Body

Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	I _{FT}	V _{EH}	V _{EL}	V _{OL}	t _{PHL} / t _{PLH}	CM _H / CM _L
											Min (KV _{RMS})
ICPLW137	Single Channel Optocoupler with a High Speed Integrated Photo Detector Strobable Logic Gate Output	5	-40 – 105	7.0	7.0	5 V _{CC} = 3.3V / 5.5V	2.0 V _{CC} = 3.3V / 5.5V	0.8 V _{CC} = 3.3V / 5.5V	0.6 V _{CC} = 3.3V / 5.5V	90ns V _{CC} =3.3V 100ns V _{CC} =5V	10000 V _{CC} = 3.3V / 5V I _F = 0mA / 10mA
ICPLW2601											5000 V _{CM} = 50Vp-p
ICPLW2611			-40 – 85			5	2.0	0.8	0.6	100	10000 V _{CM} = 400Vp-p

Note : V_{CC} must be bypassed by a minimum 0.1μF capacitor

Single Channel Half Pitch

Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	I _{FT}	V _{EH}	V _{EL}	V _{OL}	t _{PHL} / t _{PLH}	CM _H / CM _L
											Min (KV _{RMS})
ICPL0600	Single Channel Optocoupler with a High Speed Integrated Photo Detector Strobable Logic Gate Output	3.75	-40 – 100	7.0	7.0	5	2.0	0.8	0.6	75	1000 Ref
ICPL0601											5000 V _{CM} = 50Vp-p
ICPL0611											10000 V _{CM} = 400Vp-p
ICPL0611-5			-40 – 105								0.6 V _{CC} = 3.3V / 5.5V

Note : V_{CC} must be bypassed by a minimum 0.1μF capacitor

 DRAWINGS OVERLEAF

10Mbps/s High Speed Optocouplers

Single Channel Half Pitch 5 Pin

Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	I _{FT}	V _E	V _{OL}	t _{PHL} / t _{PLH}	CM _H / CM _L
		Min (KV _{RMS})	(°C)	Max (V)	Max (V)	Max (mA)	(V)	Max (V)	Max (ns)	Min (V/μs)
ICPLM600	Single Channel Optocoupler with a High Speed Integrated Photo Detector Logic Gate Output	3.75	-40 – 85	7.0	7.0	5 V _{CC} = 5.5V V _O = 0.6V I _{OL} = 13mA	NA	0.6 V _{CC} = 5.5V I _F = 5mA I _O = 13mA	100 V _{CC} = 5V I _F = 7.5mA R _L = 350Ω C _L = 15pF	1000 Ref
ICPLM601										5000 V _{CM} = 50Vp-p
ICPLM611										10000 I _F = 0mA / 10mA V _{CC} = 3.3V / 5V V _{CM} = 1000Vp-p

Note : V_{CC} must be bypassed by a minimum 0.1μF capacitor

Single Channel Stretched Body SO6 (Wide Lead Separation)

Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	I _{FT}	V _E	V _{OL}	t _{PHL} / t _{PLH}	CM _H / CM _L
		Min (KV _{RMS})	(°C)	Max (V)	Max (V)	Max (mA)	(V)	Max (V)	Max (μs)	Min (V/μs)
ICPLW60L	Single Channel Optocoupler with a High Speed Photo Detector Transistor Output	5	-40 – 105	7.0	7.0	5 V _{CC} = 3.3V / 5.5V V _O = 0.6V I _{OL} = 13mA	NA	0.6 V _{CC} = 3.3V / 5.5V I _F = 5mA I _O = 13mA	75 t _{PLH} = 90 V _{CC} = 3.3V	15000 V _{CC} = 3.3V / 5V I _F = 0mA / 7.5mA V _{OH} > 2V, V _{OL} < 0.8V R _L = 350kΩ V _{CM} = 1kVp-p

Note : V_{CC} must be bypassed by a minimum 0.1μF capacitor

Dual Channel

Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	I _{FT}	V _E	V _{OL}	t _{PHL} / t _{PLH}	CM _H / CM _L
		Min (KV _{RMS})	(°C)	Max (V)	Max (V)	Max (mA)	(V)	Max (V)	Max (ns)	Min (V/μs)
ICPL2630	Dual Channel Optocoupler with a High Speed Integrated Photo Detector Logic Gate Output	5	-40 – 100	7.0	7.0	5 V _{CC} = 5.5V V _O = 0.6V I _{OL} = 13mA	NA	0.6 V _{CC} = 5.5V I _F = 5mA I _O = 13mA	100 V _{CC} = 5V I _F = 7.5mA R _L = 350Ω C _L = 15pF	5000 V _{CC} = 5V I _F = 0mA / 7.5mA V _{OH} > 2V, V _{OL} < 0.8V R _L = 350Ω V _{CM} = 1kVp-p
ICPL2631										10000

Note : V_{CC} must be bypassed by a minimum 0.1μF capacitor

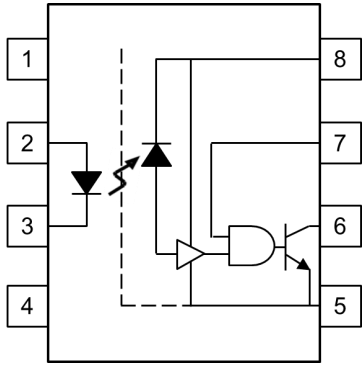
Dual Channel Half Pitch

Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	I _{FT}	V _E	V _{OL}	t _{PHL} / t _{PLH}	CM _H / CM _L
		Min (KV _{RMS})	(°C)	Max (V)	Max (V)	Max (mA)	(V)	Max (V)	Max (ns)	Min (V/μs)
ICPL0630	Dual Channel Optocoupler with a High Speed Integrated Photo Detector Logic Gate Output	3.75	-40 – 100	7.0	7.0	5 V _{CC} = 5.5V V _O = 0.6V I _{OL} = 13mA	NA	0.6 V _{CC} = 5.5V I _F = 5mA I _O = 13mA	100 V _{CC} = 5V I _F = 7.5mA R _L = 350Ω C _L = 15pF	5000 V _{CC} = 5V I _F = 0mA / 7.5mA V _{OH} > 2V, V _{OL} < 0.8V R _L = 350Ω V _{CM} = 1kVp-p
ICPL0631										10000

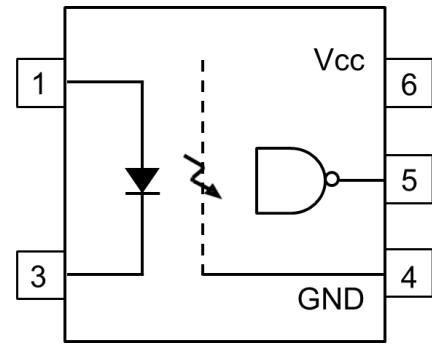
Note : V_{CC} must be bypassed by a minimum 0.1μF capacitor

10Mbits/s High Speed Optocouplers

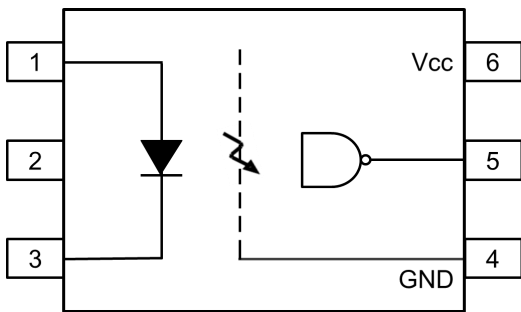
Single Channel



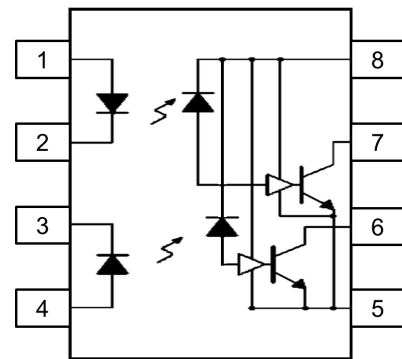
Single Channel Half Pitch 5 Pin



Single Channel Stretched Body SO6 (Wide Lead Separation)

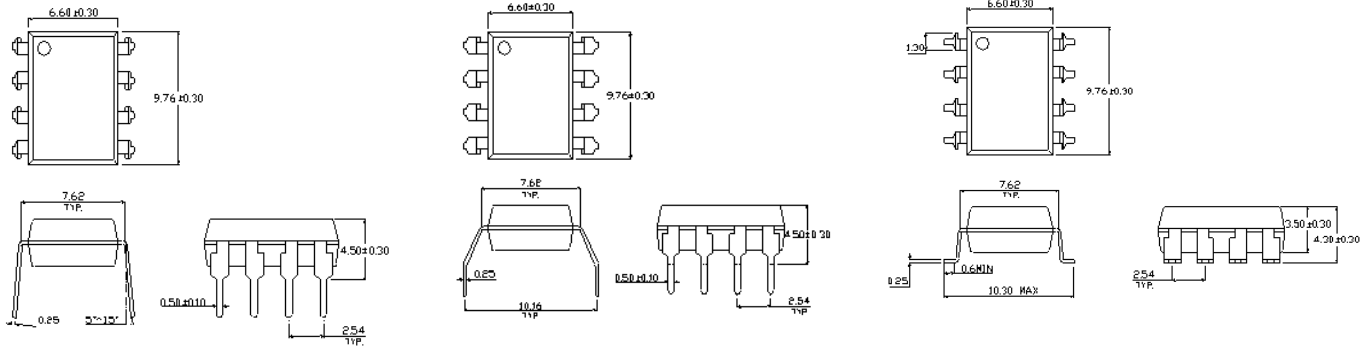


Dual Channel

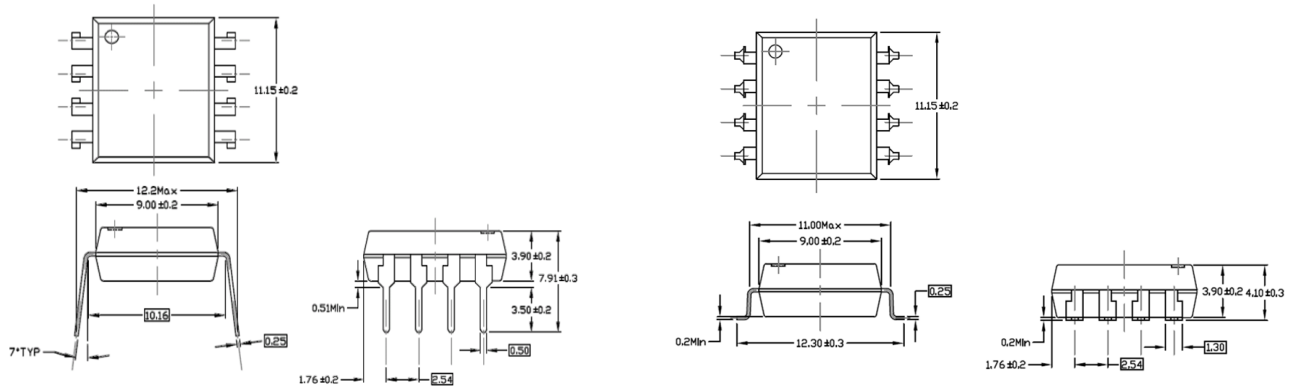


10Mbits/s High Speed Optocouplers

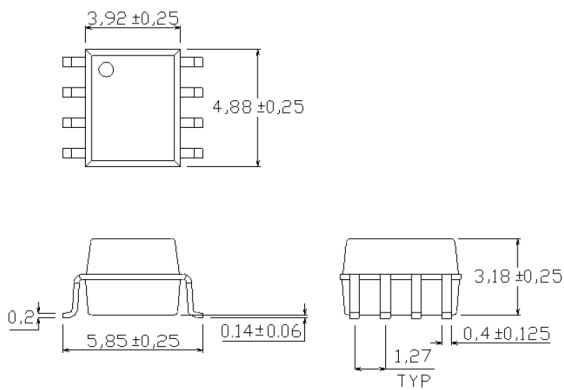
8 Pin DIL Packages



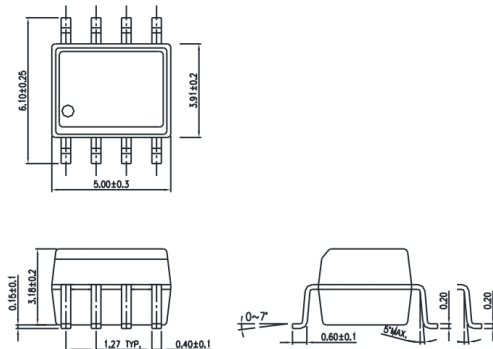
Wide Body Packages



Half Pitch Package

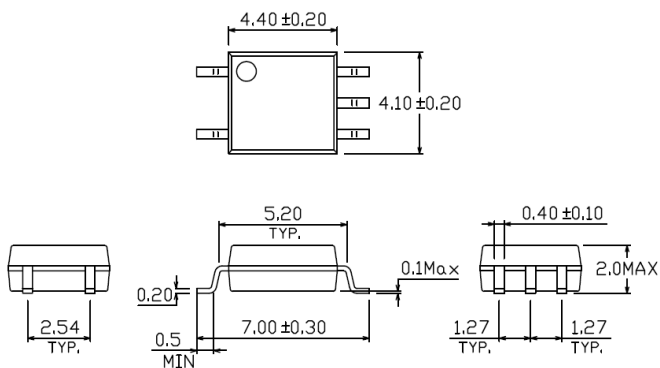


ICPL0611-5

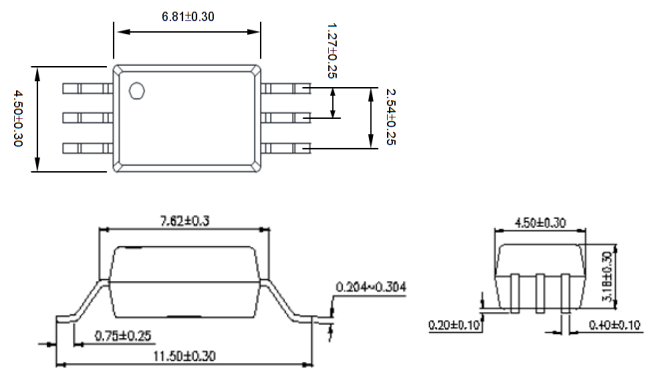


Note : ICPL0611-5 - Refer to related drawing

Half Pitch 5 Pin Package



Stretched Body SO6 (Wide Lead Separation) Package



High Speed Split Darlington Optocoupler

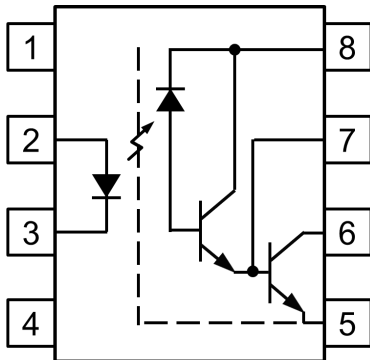
Single Channel

Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	V _{ER}	Current Transfer Ratio	V _{OL}	t _{PLH} / t _{PHL}	CM _H / CM _L
		Min (KV _{RMS})	(°C)	Max (V)	Max (V)	Max (V)	V _{CC} = 4.5V I _F = 1.6mA V _O = 0.4V	V _{CC} = 4.5V I _F = 1.6mA I _O = 4.8mA	V _{CC} = 4.5V I _F = 1.6mA I _O = 4.8mA	V _{CC} = 5V I _F = 0mA / 1.6mA V _{OH} > 2V V _{OL} < 0.8V R _L = 2.2kΩ V _{CM} = 10Vp-p
							Min (%)	Max (V)	Max (μs)	Min (V/μs)
6N138	Single Channel Optocoupler with a High Speed High Gain Split Darlington Transistor Output	5	-55 - 85	7	7	0.5	300	0.4	35 / 10	1000
				Note 1						
6N139				18	18	Note 2	500 400 I _F = 0.5mA	0.4 I _F = 0.5mA I _O = 2mA	60 / 25 I _F = 0.5mA R _L = 4.7kΩ	1000

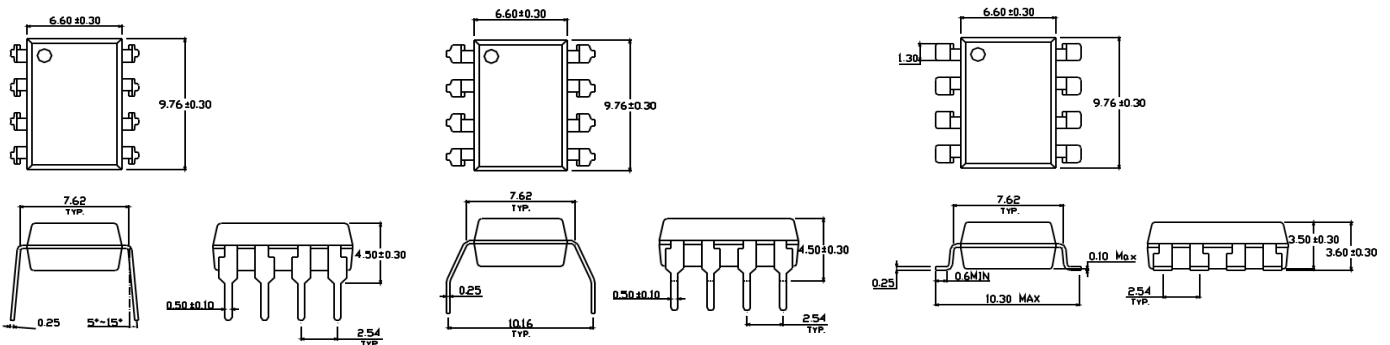
Note 1 : V_{CC} is recommended to be bypassed by a 0.1μF capacitor

Note 2 : V_{ER} = Emitter to Base Reverse Voltage

High Speed Split Darlington



8 Pin DIL Packages



Solid State Relay (1 Form A)

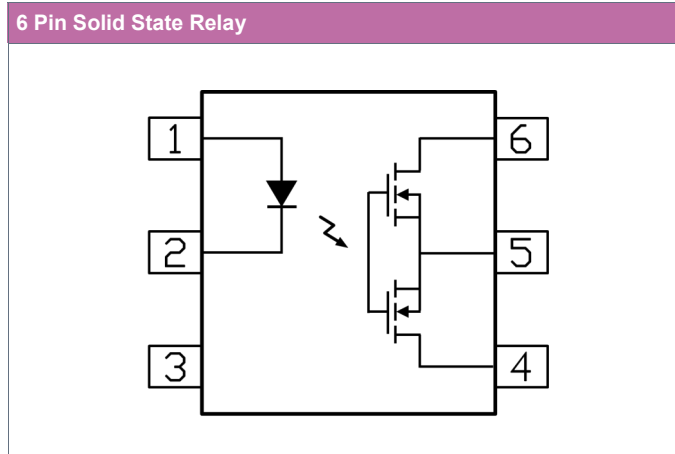
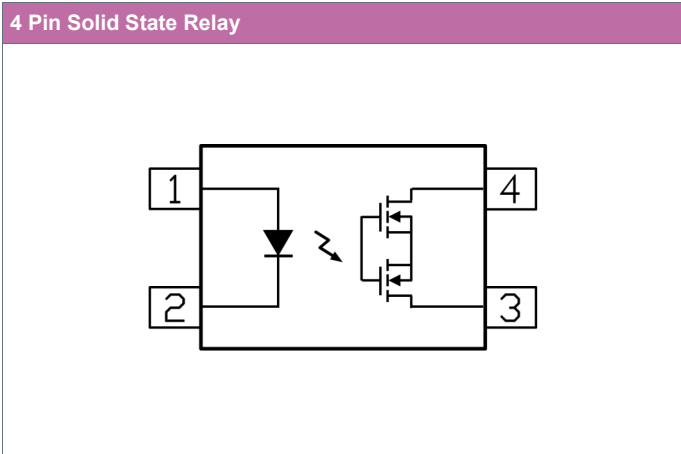
4 Pin											
Part Number	Features	Isolation Voltage Min (KV _{RMS})	T _{OP} (°C)	V _L	I _L	I _{L(PEAK)} t = 100ms	I _{F(ON)}	I _{F(OFF)}	R _{D(ON)}	T _{ON}	T _{OFF}
				Max (V)	Max (mA)	Max (A)	Max (mA)	Min (mA)	Max (Ω)	Max (ms)	Max (ms)
ISP06	Single Channel Single Pole Single Throw Normally Open Optocoupler	5	-40 – 85	60	550	1.2	5	0.4	2.5	3	0.5
ISP25				250	180	0.5			15		
ISP40				400	120	0.3			30		
ISP60				600	50	0.15			70		

6 Pin											
Part Number	Features	Isolation Voltage Min (KV _{RMS})	T _{OP} (°C)	V _L	I _L	I _{L(PEAK)} t = 100ms	I _{F(ON)}	I _{F(OFF)}	R _{D(ON)}	T _{ON}	T _{OFF}
				Max (V)	Max (mA)	Max (A)	Max (mA)	Min (mA)	Max (Ω)	Max (ms)	Max (ms)
IS06	Single Channel Single Pole Single Throw Normally Open Optocoupler	5	-40 – 85	60	550	1.2	3	0.4	R _{D(ON)A} = 2.5 R _{D(ON)B} = 1.0 R _{D(ON)C} = 0.5	3	0.5
IS25				250	180	0.5			R _{D(ON)A} = 15 R _{D(ON)B} = 5.0 R _{D(ON)C} = 3.0		
IS40				400	120	0.3			R _{D(ON)A} = 30 R _{D(ON)B} = 20 R _{D(ON)C} = 15		
IS60				600	50	0.15			R _{D(ON)A} = 70 R _{D(ON)B} = 50 R _{D(ON)C} = 30		

R_{D(ON)A} : Output Configuration A

R_{D(ON)B} : Output Configuration B

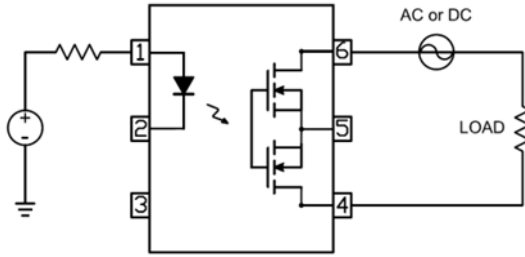
R_{D(ON)C} : Output Configuration C



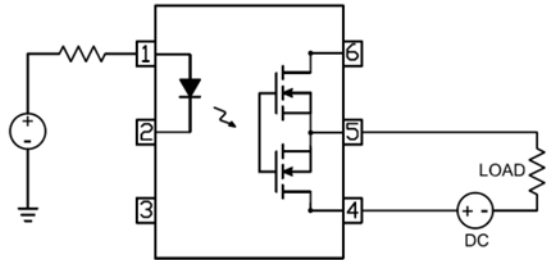
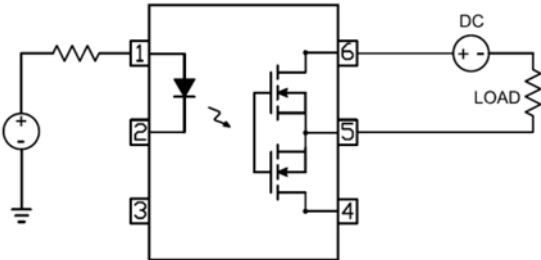
▶ DRAWINGS OVERLEAF

Solid State Relay (1 Form A)

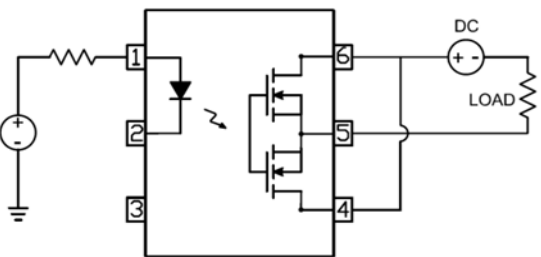
6 Pin Output Configuration A



6 Pin Output Configuration B

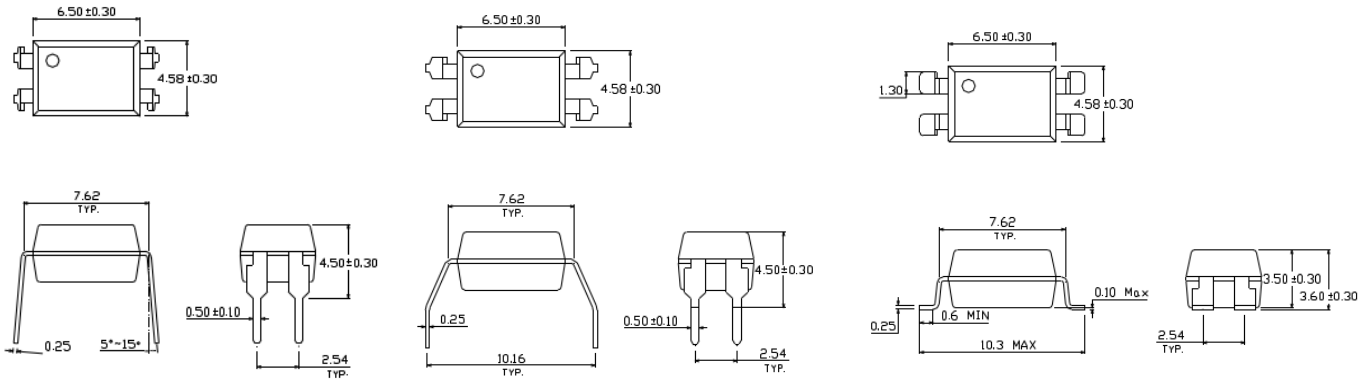


6 Pin Output Configuration C

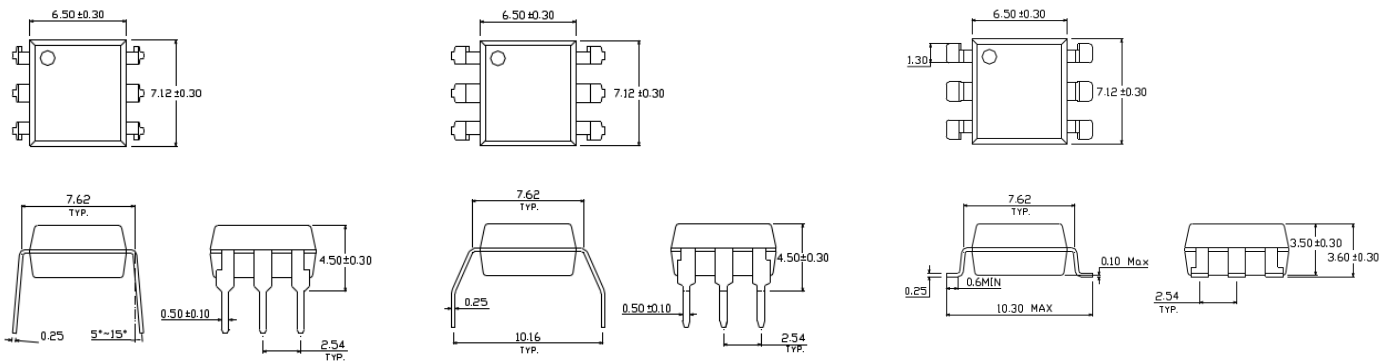


Solid State Relay (1 Form A)

4 Pin DIL Packages



6 Pin DIL Packages

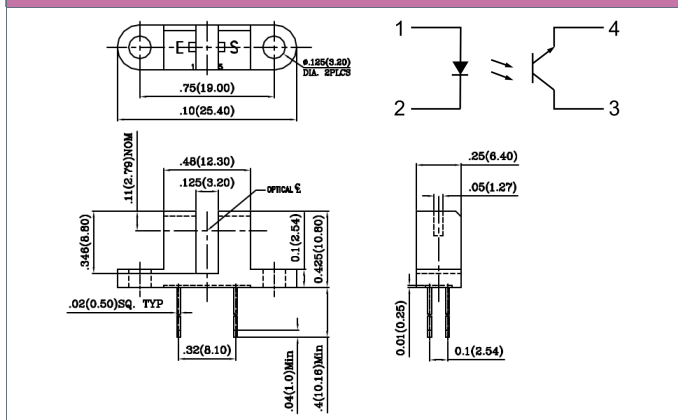


Optical Switch

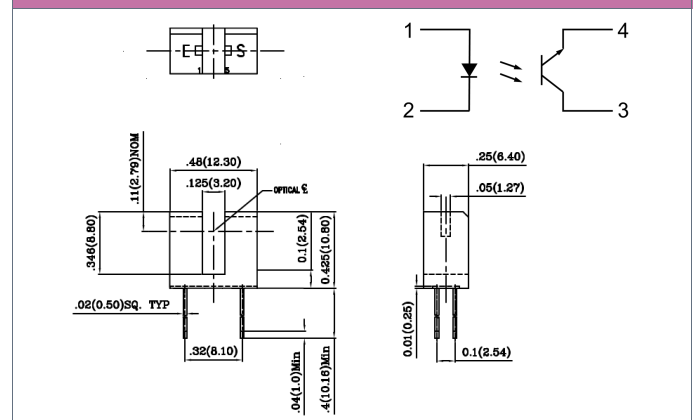
4 Pin Transistor Output

Part Number	Features	Current Transfer Ratio	Slot Width	Continuous Forward Current	V_F $I_F = 20\text{mA}$	BV_{CEO} $I_C = 1\text{mA}$	I_{CEO} $V_{CE} = 10\text{V}$	$V_{CE(SAT)}$ $I_F = 20\text{mA}$ $I_C = 0.25\text{mA}$
		$I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$						
H21A1	Single channel Optical Switch with Phototransistor Output	3	3.2	50	1.6	30	100	0.4
H21A2		6						
H21A3		12						
H22A1		3						
H22A2		6						
H22A3		12						
ISTS100		6 $I_F = 30\text{mA}$						
ISTS105A	2.5 $I_F = 20\text{mA}$	5.2						
ISTS200	6 $I_F = 30\text{mA}$	3.2						

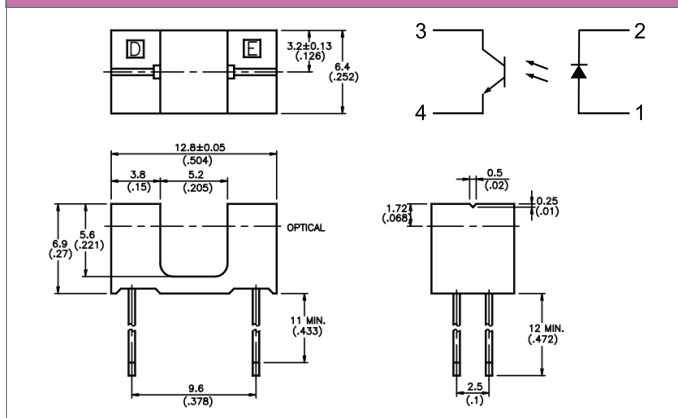
H21A1 / H21A2 / H21A3 / ISTS200



H22A1 / H22A2 / H22A3 / ISTS100



ISTS105A



Cross List					
Isocom	Broadcom	Onsemi	SHARP	Renesas	Toshiba
ICPL316J	HCPL-316J				
ICPL332J	ACPL-332J	FOD8332-D			TLP5214 / TLP5214A
ICPL3120	HCPL-3120	FOD3120			TLP350
ICPL3150	HCPL-3150	FOD3150			
IS314P	ACPL-P314				
IS314W	ACPL-W314				
IS341W	ACPL-W341				
ICPL4506	HCPL-4506			PS9513	
IS480P	ACPL-P480				
6N135	6N135	6N135			
6N136	6N136	6N136			
6N137	6N137	6N137			
6N138	6N138	6N138			
6N139	6N139	6N139			
ICPL0452	HCPL-0452				
ICPL0453	HCPL-0453	HCPL0453	PC457S		
ICPL0500	HCPL-0500	HCPL0500			
ICPL0501	HCPL-0501	HCPL0501			
ICPL0530	HCPL-0530	HCPL0530			
ICPL0531	HCPL-0531	HCPL0531			
ICPL0600	HCPL-0600	HCPL0600			
ICPL0601	HCPL-0601	HCPL0601			
ICPL0611	HCPL-0611	HCPL0611	PC410S	PS9817A-1	
ICPL0611-5	HCPL-0611	HCPL0611	PC410S	PS9817A-1	
ICPL0630	HCPL-0630	HCPL0637			
ICPL0631	HCPL-0631	HCPL0638	PC4D10	PS9817A-2	
ICPL2530	HCPL-2530	HCPL2530			TLP2530
ICPL2531	HCPL-2531	HCPL2531			TLP2531
ICPL2601	HCPL-2601	HCPL2601			TLP554 TLP2601
ICPL2611	HCPL-2611	HCPL2611		PS9587	
ICPL2630	HCPL-2630	HCPL2630			TLP2630
ICPL2631	HCPL-2631	HCPL2631			TLP2631
ICPL2661	HCPL-2661				
ICPL4502		HCPL4502			TLP559 TLP750 TLP759
ICPL4503		HCPL4503			
ICPLM452		FODM452			TLP112 TLP112A TLP114A
ICPLM453		FODM453	PC457	PS8101	
ICPLM600	HCPL-M600				
ICPLM601	HCPL-M601				TLP113 TLP115 TLP115A
ICPLM611	HCPL-M611	FODM611	PC410L	PS9117A	
ICPLW135	HCNW135				
ICPLW136	HCNW136				
ICPLW137	HCNW137				
ICPLW2601	HCNW2601				
ICPLW2611	HCNW2611				
ICPLW4503	HCNW4503				
ICPLW50L	ACPL-W50L				
ICPLW60L	ACPL-W60L				

Cross Reference

Broadcom / Avago	Isocom	Broadcom / Avago	Isocom		
4N25-000E	4N25	HCPL-0500	ICPL0501		
4N35-000E	4N35	HCPL-0501	ICPL0501		
6N135-000E	6N135	HCPL-0531	ICPL0531		
6N135-300E	6N135SM	HCPL-0600	ICPL0601		
6N135-500E	6N135SMT&R	HCPL-0601	ICPL0601		
6N136-000E	6N136	HCPL-0611	ICPL0611		
6N136-300E	6N136SM	HCPL-0630-000E	ICPL0631SMT&R		
6N136-500E	6N136SMT&R	HCPL-0630-500E	ICPL0631SMT&R		
6N137-000E	6N137V	HCPL-0631	ICPL0631		
6N137-300E	6N137XSM	HCPL-181-000E	IS181		
6N137-500E	6N137VSMT&R	HCPL-181-00AE	IS181A		
6N138-000E	6N138	HCPL-181-00BE	IS181B		
6N138-300E	6N138SM	HCPL-181-00CE	IS181C		
6N138-500E	6N138SMT&R	HCPL-181-00DE	IS181D		
6N139-000E	6N139	HCPL-2531-020E	ICPL2531		
6N139-300E	6N139SM	HCPL-2601	ICPL2601		
6N139-500E	6N139SMT&R	HCPL-2611	ICPL2611		
6N139-500E	6N139SMT&R	HCPL-2611-500E	ICPL2611		
ACPL-214-500E	IS280	HCPL-3120-000E	ICPL3120		
ACPL-217-500E	ISP281	HCPL-3120-300E	ICPL3120SM		
ACPL-217-500E	IS281	HCPL-3120-500E	ICPL3120SMT&R		
ACPL-217-50AE	IS281A	HCPL-354-00AE	IS354		
ACPL-217-50BE	IS281B	HCPL-814-000E	ISP814		
ACPL-217-50CE	IS281C	HCPL-814-00AE	ISP814A		
ACPL-217-50DE	IS281D	HCPL-817-000E	ISP817X		
ACPL-224-500E	IS2805	HCPL-817-00AE	ISP817AX		
ACPL-244-500E	IS280-4	HCPL-817-00BE	ISP817BX		
ACPL-247-000E	IS281-4	HCPL-817-00CE	ISP817CX		
ACPL-247-560E	IS281-4	HCPL-817-00DE	ISP817DX		
ACPL-247-560E	IS281-4	HCPL-817-56BE	ISP817BXSMT&R		
ACPL-333J-500E	ICPL332J	HCPL-M452	ICPLM452		
ACPL-824-000E	ISP824	HCPL-M453	ICPLM453		
ACPL-824-060E	ISP824X				
ACPL-824-360E	ISP824XSM				
ACPL-824-500E	ISP824SMT/R				
ACPL-824-560E	ISP824XSMT/R				
ACPL-824-W60E	ISP824XG				
ACPL-827-000E	ISP827				
ACPL-844-000E	ISP844				
ACPL-847-000E	ISP847				
ACPL-M50L-000E	ICPLW50L				
ACPL-M50L-560E	ICPLM611				
ACPL-P314	IS314P				
ACPL-P340-560E	IS314P				
ACPL-P341	IS341P				
ACPL-W314-500E	IS314W				
ACPL-W341	IS341W				

The Cross Reference provides Isocom closest replacement devices.
Both specifications shall be reviewed to confirm performance.

Cross Reference

Onsemi	Isocom	Onsemi	Isocom		
H11L1M	H11L1V	TIL111	TIL111		
H11L1-M	H11L1V	TIL111.300	TIL111X		
H11L1SM	H11L1VSM	TIL111.300W	TIL111XG		
H11L1S-M	H11L1VSM	TIL111.3S	TIL111XSM		
H11L1SR2M	H11L1VSMT&R	TIL111.3SD	TIL111XSMT&R		
H11L1SR2-M	H11L1SMT&R	TIL111.S	TIL111SM		
H11L1SR2VM	H11L1VSMT&R	TIL111.SD	TIL111SMT&R		
H11L1T-M	H11L1VG	TIL111.W	TIL111G		
H11L2	H11L2	TIL111-M	TIL111		
H11L2-M	H11L2	TIL111SM	TIL111SM		
H11L2SM	H11L2SM	TIL111S-M	TIL111SM		
H11L2S-M	H11L2SM	TIL111SMT/R	TIL111SMT&R		
H11L2SR2-M	H11L2SMT&R	TIL111SR2-M	TIL111SMT&R		
H11L2T-M	H11L2G	TIL111SR2V-M	TIL111XSMT&R		
H11L3	H11L3	TIL111SV-M	TIL111XSM		
H11L3-M	H11L3	TIL111T-M	TIL111G		
H11L3SM	H11L3SM	TIL111TV-M	TIL111XG		
H11L3S-M	H11L3SM	TIL111V-M	TIL111X		
H11L3SR2-M	H11L3SMT&R	TIL113	TIL113		
H11L3T-M	H11L3G	TIL113.300	TIL113X		
HCPL2630SD	ICPL2631SMT&R	TIL113.300W	TIL113XG		
HMHA2801R2	IS280	TIL113.3S	TIL113XSM		
HMHA281	IS281	TIL113.3SD	TIL113SMT&R		
HMHA281R2	IS281	TIL113.S	TIL113SM		
MCT2EM	MCT2E	TIL113.SD	TIL113SM		
MCT6	MCT6	TIL113.W	TIL113G		
MCT9001	MCT9001	TIL114	TIL114		
MOC063M	MOC3063X	TIL114SM	TIL114SM		
MOC3010SR2M	MOC3010XSMT&R	TIL114SMT/R	TIL114SMT&R		
MOC3011SR2M	MOC3011XSMT&R	TIL116	TIL116		
MOC3012SR2M	MOC3012XSMT&R	TIL116SM	TIL116SM		
MOC3020M	MOC3020X	TIL116SMT/R	TIL116SMT&R		
MOC3022M	MOC3022X	TIL117	TIL117		
MOC3023M	MOC3023X	TIL117-M	TIL117		
MOC3023SR2M	MOC3023XSMT&R	TIL117SM	TIL117SM		
MOC3031M	MOC3031	TIL117S-M	TIL117SM		
MOC3033SM	MOC3033XSM	TIL117SMT/R	TIL117SMT&R		
MOC3041M	MOC3041X	TIL117SR2-M	TIL117SMT&R		
MOC3043SR2M	MOC3043XSMT&R	TIL117SR2V-M	TIL117XSMT&R		
MOC3052SR2M	MOC3052XSMT&R	TIL117SV-M	TIL117XSM		
MOC3062M	MOC3062X	TIL117T-M	TIL117G		
MOC3063SM	MOC3063XSM	TIL117TV-M	TIL117XG		
MOC3063SR2M	MOC3063XSMT&R	TIL117V-M	TIL117X		
MOCD207M	MOCD207				
MOCD207R2M	MOCD207				
MOCD217R2M	MOCD217				
MOCD217R2M	MOCD217				

The Cross Reference provides Isocom closest replacement devices.
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Cross Reference

Renesas	Isocom	Renesas	Isocom
PS2501-1-A	PS2501-1	PS2801-1-A	IS2801-1
PS2501-1-H-A	PS2501-1	PS2801-1-F3-A	IS2801-1
PS2501-1-K-A	PS2501-1	PS2801-1-F3-K-A	IS2801-1
PS2501-4-A	PS2501-4	PS2801-1-L-A	IS2801-1
PS2501A-1-A	PS2501-1GRSMT&R	PS2801-1-V-F3-A	IS281-4GB
	PS2501-1LSMT&R	PS2801-4-A	IS2801-4
PS2501AL-1-F3-A	PS2501-1X	PS2801-4-F3-A	IS2801-4
PS2501AL-1-F3-W-A	PS2501-1XSM	PS2801C-1-A	IS2801-1
PS2501L-1-A	PS2501-1XSM	PS2801C-1-F3-A	IS2801-1
PS2501L-1-F3-A	PS2501XSM	PS2801C-1-V-F3-A	IS2801-4
PS2501L-1-F3-H-A	PS2501-1XSM	PS2801C-4-A	IS2801-4
PS2501L-1-F3-K-A	PS2501-1XSM	PS2801C-4-F3-A	IS2801-4
PS2501L-1-F3-L-A	PS2501-1XSM	PS2802-1-F3-A	IS2802-1
PS2501L-1-K-A	PS2501-1XSM	PS2805-1-F3-A	IS2805-1
PS2501L-1-L-A	PS2501-1XSM	PS2805-4-A	IS2805-4
PS2501L-4-A	PS2501-4XSM	PS2805-4-F3-A	IS2805-4
PS2502-1-A	PS2502-1	PS2805A-1-A	IS2805
PS2502-4-A	PS2502-4	PS2805C-1-F3-A	IS2805
PS2502L-1-F3-A	PS2502-1SMT&R	PS2815-4-A	IS280-4GR
PS2502L-4-A	PS2502-4	PS2815-4-F3-A	IS280-4GR
PS2505-1-A	PS2505-1	PS8101-F3-AX	ICPLM453
PS2505-4-A	IS2805-4	PS9117A-F3-AX	ICPLM611
PS2505L-1-A	PS2505-1XSM	PS9121-F3-AX	ICPLM611
PS2505L-1-F3-A	PS2505-1		
PS2505L-4-A	IS2505-4		
PS2561AL-1-A	PS25011GRSMT&R		
	PS2501-1LSMT&R		
PS2561BL-1-F3-Q-A	ISP817ASMT&R		
PS2561DL-1Y-F3-A	PS2501-1GRSMT&R		
	PS2501-1LSMT&R		
PS2561L-1-F3-A	PS2501-1GRSMT&R		
	PS2501-1LSMT&R		
PS2561L-1-F3-L-A	PS2501-1LSMT&R		
PS2562-1-A	PS2502-1		
PS2562L-1-F3-A	PS2502-1SMT&R		
PS2565-1-A	PS2505-1		
PS2701-1-A	IS2701-1		
PS2701A-1-F3-P-A	IS2701-1		
PS2702-1-A	IS2702-1		
PS2702-1-F3-A	IS2702-1		
PS2705-1-A	IS2705-1		
PS2705-1-F3-A	IS2705-1		
PS2705A-1-F3-A	IS2705-1		
PS2705A-1-F3-L-A	IS2705-1		
PS2761B-1-V-F3-K-A	IS181C		

The Cross Reference provides Isocom closest replacement devices.
Both specifications shall be reviewed to confirm performance.

Cross Reference

Vishay	Isocom	Vishay	Isocom	Vishay	Isocom
4N25-X000	4N25X	CNY17-1	CNY17-1	CNY17F-1	CNY17F-1
4N25-X001	4N25X	CNY17-1X001	CNY17-1X	CNY17F-1X001	CNY17F-1X
4N25-X006	4N25XG	CNY17-1X006	CNY17-1XG	CNY17F-1X006	CNY17F-1XG
4N25-X007T	4N25XSMT&R	CNY17-1X007	CNY17-1XSM	CNY17F-1X007	CNY17F-1XSM
4N25-X009	4N25XSM	CNY17-1X007T	CNY17-1XSMT&R	CNY17F-1X007T	CNY17F-1XSMT&R
4N25-X009T	4N25XSMT&R	CNY17-1X009	CNY17-1XSM	CNY17F-1X009	CNY17F-1XSM
4N25-X016	4N25XG	CNY17-1X009T	CNY17-1XSMT&R	CNY17F-1X009T	CNY17F-1XSMT&R
4N25-X017	4N25XSM	CNY17-1X016	CNY17-1XG	CNY17F-1X016	CNY17F-1XG
4N25-X017T	4N25XSMT&R	CNY17-1X017	CNY17-1XSM	CNY17F-1X017	CNY17F-1XSM
4N26-X001	4N26X	CNY17-2	CNY17-2	CNY17F-1X017T	CNY17F-1XSMT&R
4N26-X006	4N26XG	CNY17-2X001	CNY17-2X	CNY17F-1X019	CNY17F-1XSM
4N26-X009	4N26XSM	CNY17-2X006	CNY17-2XG	CNY17F-2	CNY17F-2
4N26-X009T	4N26XSMT&R	CNY17-2X007	CNY17-2XSM	CNY17F-2X001	CNY17F-2X
4N26-X016	4N26XG	CNY17-2X007T	CNY17-2XSMT&R	CNY17F-2X006	CNY17F-2XG
4N26-X017	4N26XSM	CNY17-2X009	CNY17-2XSM	CNY17F-2X007	CNY17F-2XSM
4N26-X017T	4N26XSMT&R	CNY17-2X009T	CNY17-2XSMT&R	CNY17F-2X007T	CNY17F-2XSMT&R
4N27-X000	4N27X	CNY17-2X016	CNY17-2XG	CNY17F-2X009	CNY17F-2XSM
4N27-X007	4N27XSM	CNY17-2X017	CNY17-2XSM	CNY17F-2X009T	CNY17F-2XSMT&R
4N27-X009	4N27XSM	CNY17-2X017T	CNY17-2XSMT&R	CNY17F-2X016	CNY17F-2XG
4N27-X009T	4N27XSMT&R	CNY17-2X019	CNY17-2XSM	CNY17F-2X017	CNY17F-2XSM
4N27-X017T	4N27XSMT&R	CNY17-2X019T	CNY17-2XSMT&R	CNY17F-2X017T	CNY17F-2XSMT&R
4N28-X001	4N28X	CNY17-3	CNY17-3	CNY17F-2X019	CNY17F-2XSM
4N28-X009	4N28XSM	CNY17-3X001	CNY17-3X	CNY17F-2X019T	CNY17F-2XSMT&R
4N28-X009T	4N28XSMT&R	CNY17-3X006	CNY17-3XG	CNY17F-3	CNY17F-3
4N35-X000	4N35X	CNY17-3X007	CNY17-3XSM	CNY17F-3X001	CNY17F-3X
4N35-X001	4N35X	CNY17-3X007T	CNY17-3XSMT&R	CNY17F-3X006	CNY17F-3XG
4N35-X006	4N35XG	CNY17-3X009	CNY17-3XSM	CNY17F-3X007	CNY17F-3XSM
4N35-X007	4N35XSM	CNY17-3X009T	CNY17-3XSMT&R	CNY17F-3X007T	CNY17F-3XSMT&R
4N35-X007T	4N35XSMT&R	CNY17-3X016	CNY17-3XG	CNY17F-3X009	CNY17F-3XSM
4N35-X009	4N35XSM	CNY17-3X017	CNY17-3XSM	CNY17F-3X009T	CNY17F-3XSMT&R
4N35-X009T	4N35XSMT&R	CNY17-3X017T	CNY17-3XSMT&R	CNY17F-3X016	CNY17F-3XG
4N35-X016	4N35XG	CNY17-4	CNY17-4	CNY17F-3X017	CNY17F-3XSM
4N35-X017	4N35XSM	CNY17-4X006	CNY17-4XG	CNY17F-3X017T	CNY17F-3XSMT&R
4N35-X017T	4N35XSMT&R	CNY17-4X007	CNY17-4XSM	CNY17F-3X019	CNY17F-3XSM
4N35-X019T	4N35XSMT&R	CNY17-4X007T	CNY17-4XSMT&R	CNY17F-4	CNY17F-4
4N36-X000	4N36X	CNY17-4X009	CNY17-4XSM	CNY17F-4X001	CNY17F-4X
4N36-X007	4N36XG	CNY17-4X009T	CNY17-4XSMT&R	CNY17F-4X006	CNY17F-4XG
4N36-X009	4N36XSM	CNY17-4X017	CNY17-4XSM	CNY17F-4X007	CNY17F-4XSM
4N36-X009T	4N36XSMT&R	CNY17-4X017T	CNY17-4XSMT&R	CNY17F-4X007T	CNY17F-4XSMT&R
4N37-X000	4N37X			CNY17F-4X009	CNY17F-4XSM
4N37-X001	4N37X			CNY17F-4X009T	CNY17F-4XSMT&R
4N37-X006	4N37XG			CNY17F-4X016	CNY17F-4XG
4N37-X007	4N37XSM			CNY17F-4X017	CNY17F-4XSM
4N38	4N38			CNY17F-4X017T	CNY17F-4XSMT&R
4N38-X007	4N38XSM				
4N38-X007T	4N38XSMT&R				
4N38-X009T	4N38XSMT&R				

The Cross Reference provides Isocom closest replacement devices. Both specifications shall be reviewed to confirm performance.

Cross Reference

Vishay	Isocom	Vishay	Isocom
SFH617A-2	SFH617A-2	SFH617A-2	SFH617A-2
SFH617A-2X017T	SFH617A-2XSMT&R	SFH617A-2X001	SFH617A-2X
SFH617A-3	SFH617A-3	SFH617A-2X006	SFH617A-2XG
SFH617A-3X016	SFH617A-3XG	SFH617A-2X009T	SFH617A-2XSMT&R
SFH617A-3X017T	SFH617A-3XSMT&R	SFH617A-2X016	SFH617A-2XG
SFH61690CT	IS181A	SFH617A-2X017T	SFH617A-2XSMT&R
SFH6156-1T	SFH615A-1SMT&R	SFH617A-2X019	SFH617A-2XSM
SFH6156-2	SFH615A-2XSM	SFH617A-2X019T	SFH617A-2XSMT&R
SFH6156-2T	SFH615A-2XSMT&R	SFH617A-3	SFH617A-3X
SFH6156-3T	SFH615A-3XSMT&R	SFH617A-3	SFH617A-3X
SFH6156-4T	SFH615A-3XSMT&R	SFH617A-3X001	SFH617A-3X
SFH615A-1	SFH615A-1	SFH617A-3X006	SFH617A-3XG
SFH615A-1X001	SFH615A-1X	SFH617A-3X007T	SFH617A-3XSMT&R
SFH615A-1X006	SFH615A-1XG	SFH617A-3X016	SFH617A-3XG
SFH615A-1X016	SFH615A-1XG	SFH617A-3X016	SFH617A-3XG
SFH615A-1X017	SFH615A-1XSMT&R	SFH617A-3X017	SFH617A-3XSM
SFH615A-1X017T	SFH615A-1XSMT&R	SFH617A-3X017T	SFH617A-3XSMT&R
SFH615A-2	SFH615A-2	SFH617A-3X017T	SFH617A-3XSMT&R
SFH615A-2	SFH615A-2X	SFH617A-4	SFH617A-4
SFH615A-2X001	SFH615A-2X	SFH617A-4X001	SFH617A-4X
SFH615A-2X006	SFH615A-2XG	SFH617A-4X006	SFH617A-4XG
SFH615A-2X009T	SFH615A-2XSMT/R	SFH617A-4X016	SFH617A-4XG
SFH615A-2X016	SFH615A-2XG	SFH6186-3	SFH618A-3XSM
SFH615A-2X017	SFH615A-2XSM	SFH6186-3T	SFH618A-3XSMT&R
SFH615A-2X017T	SFH615A-2XSMT/R	SFH6206-1T	SFH620A-2SMT&R
SFH615A-2X019T	SFH615A-2XSMT/R	SFH6206-2	SFH620A-2SM
SFH615A-3	SFH615A-3	SFH620A-3X006	SFH620A-3XG
SFH615A-3	SFH615A-3	SFH6286-2T	SFH628A-2XSMT&R
SFH615A-3X001	SFH615A-3X	SFH6286-3T	SFH628A-3XSMT&R
SFH615A-3X006	SFH615A-3XG	SFH6316T	ICPL0501
SFH615A-3X006	SFH615A-3XG	SFH690ABT	IS357A
SFH615A-3X007	SFH615A-3XSM	SFH690AT	IS357A
SFH615A-3X007T	SFH615A-3XSMT&R	SFH690BT	IS357B
SFH615A-3X009	SFH615A-3XSM	SFH690DT	IS357D
SFH615A-3X009T	SFH615A-3XSMT&R		
SFH615A-3X016	SFH615A-3XG		
SFH615A-3X017	SFH615A-3XSM		
SFH615A-4	SFH615A-4		
SFH615A-4X001	SFH615A-4X		
SFH615A-4X009	SFH615A-4XSM		
SFH615A-4X017	SFH615A-4XSM		
SFH615A-4X017T	SFH615A-4XSMT&R		
SFH617A-1	SFH617A-1		
SFH617A-1X001	SFH617A-1X		
SFH617A-1X006	SFH617A-1XG		
SFH617A-1X007T	SFH617A-1XSMT&R		
SFH617A-1X016	SFH617A-1XG		

The Cross Reference provides Isocom closest replacement devices. Both specifications shall be reviewed to confirm performance.



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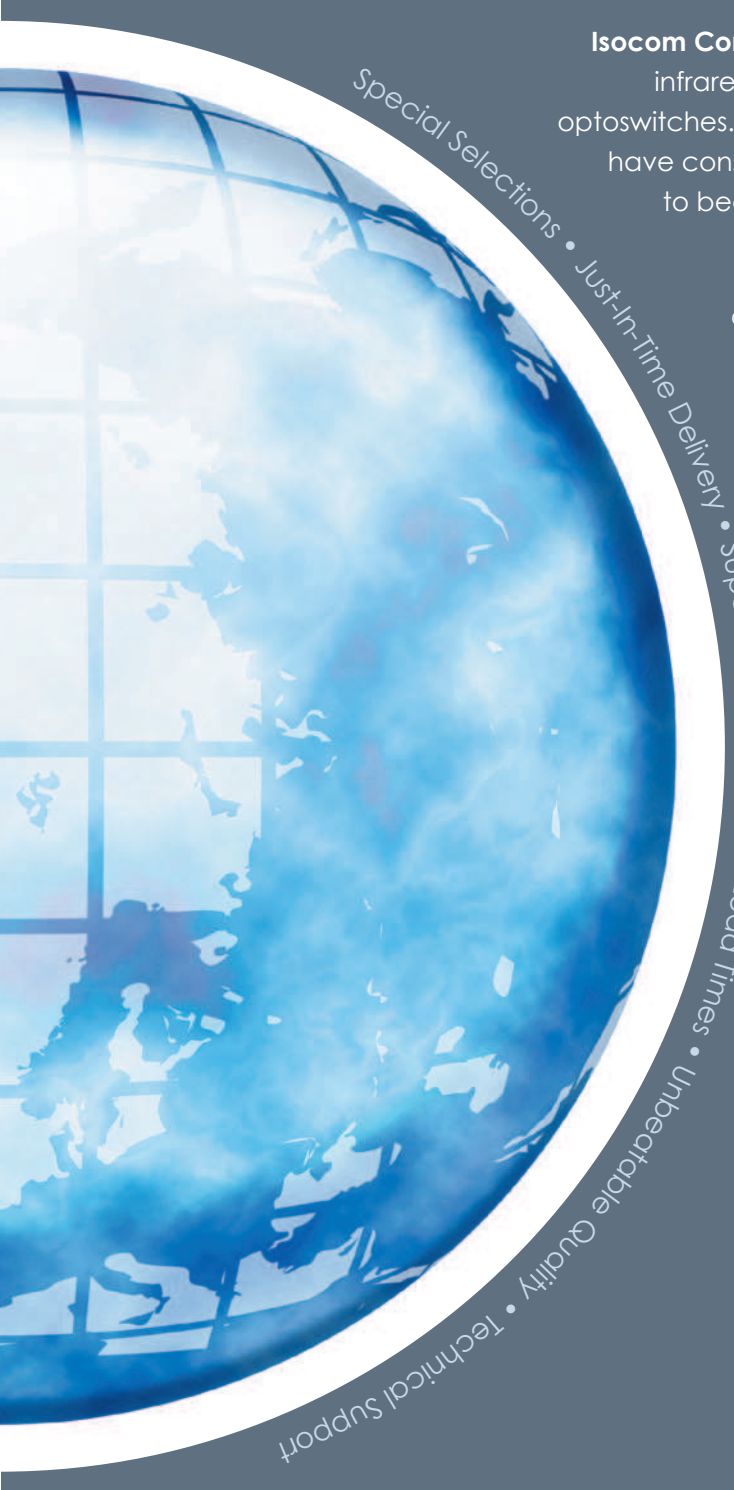
- All devices are supplied in tubes in standard straight lead form unless specified
- All devices are available in 10.16mm lead spread to ensure a minimum creepage distance of 8.0mm
- All devices are available in surface mount lead form (SMD)
- All surface mount devices are available in Tape and Reel packaging

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- For 10.16mm lead spread, add the suffix **G** to the required part number (e.g. ISP817XG)
- For surface mount option, add the suffix **SM** to the required part number (e.g. ISP817XSM)
- For tape and reel packaging, add the suffix **T&R** to the required part number (e.g. ISP817XSMT&R)

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