4 Pin DIL & SMD Optocouplers

Transistor Output

Part Number	Features	Current Transfer Ratio I_F = 5mA V_{CE} = 5V Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_{BR} I_R=10µA Min (V)	BV_{CEO} I_C=0.5mA Min (V)	$I_{CEO(Dark)}$ V_{CE}=20V Max (nA)	$V_{CE(SAT)}$ I_F=8mA I_C=2.4mA Max (V)
ISP321-1	Single channel Optocoupler with a Phototransistor Output	50-600	7.5(pk) 5.3(rms)	50	6	80	100	0.4
ISP521-1		50-600				55		
ISP621-1		50-600						
ISP817		50-600				35		0.2(I_F=20mA) (I_C=1mA)
ISP624-1		100-1200[1]				55		0.4(I_F=1mA) (I_C=0.5mA)
PS2501-1		80-600				80		0.3(I_F=10mA) (I_C=2mA)
SFH615A-1		40-80/13 (I_F=10mA/1mA)				70	50 (V_{CE}=10V)	0.4(I_F=10mA) (I_C=2.5mA)
SFH615A-2		63-125/22 (I_F=10mA/1mA)						
SFH615A-3		100-200/34 (I_F=10mA/1mA)					100 (V_{CE}=10V)	
SFH615A-4		160-320/56 (I_F=10mA/1mA)						
SFH617A-1		40-80/13 (I_F=10mA/1mA)					50 (V_{CE}=10V)	
SFH617A-2		63-125/22 (I_F=10mA/1mA)						
SFH617A-3		100-200/34 (I_F=10mA/1mA)					100 (V_{CE}=10V)	
SFH617A-4		160-320/56 (I_F=10mA/1mA)						
SFH618A-2		63-125[1]				55	50 (V_{CE}=10V)	0.4(I_F=1mA) (I_C=0.32mA)
SFH618A-3		100-200[1]						0.4(I_F=1mA) (I_C=0.5mA)
SFH618A-4		160-320[1]					100 (V_{CE}=10V)	0.4(I_F=1mA) (I_C=0.8mA)
SFH618A-5		250-500[1]						0.4(I_F=1mA) (I_C=1.25mA)
TIL191		20				35		0.4(I_F=5mA) (I_C=1mA)
TIL191A		50						
TIL191B		100						
TLP321		50-600				80		0.4
TLP521		50-600						
TLP621		50-600				55		
TLP624		100-1200[1]						0.4(I_F=1mA) (I_C=0.5mA)

Note 1 Test Condition: I_F=1mA V_{CE}=0.5V

AC Input

Part Number	Features	Current Transfer Ratio I_F = ±10mA V_{CE} = 5V Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F I_F=±20mA Max (V)	BV_{CEO} I_C=1mA Min (V)	$I_{CEO(Dark)}$ V_{CE}=20V Max (nA)	$V_{CE(SAT)}$ Max (V)
ISP620-1	Single channel Optocoupler with two infrared LED's wired in inverse parallel allowing operation with AC input voltage	40-125[1]	7.5(pk) 5.3(rms)	50mA	1.4	55 (I_C=0.5mA)	100 (V_{CE}=24V)	0.4(I_F=±8mA) (I_C=2.4mA)
ISP626-1		100[2] 50[3]						0.4(I_F=±1mA) (I_C=0.5mA)
ISP814		20-300[4]				35	100	0.2(I_F=±20mA) (I_C=1mA)
ISP814-1		80[5]				70		0.4(I_F=±1mA) (I_C=0.8mA)
ISP814-2		/40/80[5]						0.4(I_F=±0.5mA) (I_C=0.2mA)
ISP814-3		20/40/80[5]						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)
SFH620-1		40-125				70	50	0.4(I_F=±10mA) (I_C=2.5mA)
SFH620-2		63-200						
SFH620-3		100-320					100	
SFH620A-1		40-125					50	
SFH620A-2		63-200					100	
SFH620A-3		100-320						
SFH628-2		63-200[2]				55	200 (V_{CE}=10V)	0.4(I_F=±1mA) (I_C=0.5mA)
SFH628-3		100-320[2]						0.4(I_F=±1mA) (I_C=0.8mA)
SFH628-4		160-500[2]						0.4(I_F=±1mA) (I_C=1.25mA)

4 Pin DIL & SMD Optocouplers

AC Input

Part Number	Features	Current Transfer Ratio I_F = ±10mA V_{CE} = 5V Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F I_F = ±20mA Max (V)	BV_{CEO} I_C = 1mA Min (V)	$I_{CEO(Dark)}$ V_{CE} = 20V Max (nA)	$V_{CE(SAT)}$ Max (V)
SFH628A-2	Single channel Optocoupler with two infrared LED's wired in reverse parallel allowing operation with AC input voltage	63-200[2]	7.5(pk) 5.3(rms)	±50	1.4	55	200 (V_{CE}=10V)	0.4(I_F=±1mA) (I_C=0.5mA)
SFH628A-3		100-320[2]						0.4(I_F=±1mA) (I_C=0.8mA)
SFH628A-4		160-500[2]						0.4(I_F=±1mA) (I_C=1.25mA)
TIL194		20				35	100 (V_{CE}=24V)	0.4(I_F=±5mA) (I_C=1mA)
TIL194A		50						
TIL194B		100						
TLP620-1		40-125[1]				55		0.4(I_F=±8mA) (I_C=2.4mA)
TLP626-1		100[2] 50[3]						0.4(I_F=±1mA) (I_C=0.5mA)

Note 1: Test Condition I_F = ±5mA

Note 2: Test Condition I_F = ±1mA, V_{CE} = 0.5V

Note 3 :Test Condition I_F = ±0.5mA, V_{CE} = 1.5V

Note 4: Test Condition I_F = ±1mA

Note 5 :Test Condition I_F = ±0.25 / ±0.5 / ±1mA, V_{CE} = 5V

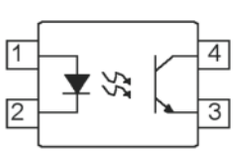
Darlington Output

Part Number	Features	Current Transfer Ratio I_F = ±1mA V_{CE} = 1V Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F I_F = 20mA Max (V)	V_{BR} I_R = 10µA Min (V)	BV_{CEO} I_C = 1mA Min (V)	$I_{CEO(Dark)}$ V_{CE} = 10V Max (nA)	$V_{CE(SAT)}$ Max (V)
IS627	Single channel Optocoupler with a Photo-Darlington Transistor	1000-15000 (V_{CE}=2V)	7.5(pk) 5.3(rms)	50	1.4	6	300[2] (I_C=0.1mA)	200 (V_{CE}=200V)	1.2(I_F=10mA) (I_C = 100mA)
ISP815		600-7500 (V_{CE}=2V)					35 (I_C=0.1mA)	100	1(I_F=20mA, I_C=5mA)
ISP815-1		/800[1]					70		1(I_F=1mA) (I_C=8mA)
ISP815-2		/400/800[1]							1(I_F=0.5mA) (I_C=2mA)
ISP815-3		200/400/800[1]							1(I_F=0.25mA) (I_C=0.5mA)
PS2502-1		200-2000					80		1(I_F=1mA) (I_C=2mA)
TIL197		500-7500					35		1(I_F= mA) (I_C=10mA)
TIL197A		1000-7500							
TIL197B		1500-7500							

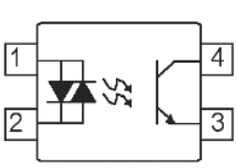
Note 1: Test Condition I_F = 0.25 / 0.5 / 1 mA, V_{CE}=1V

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

Transistor Output



AC Input



Darlington Output