

Part Number	Features	Current Transfer Ratio $I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_{BR} $I_R = 10\mu\text{A}$ Min (V)	BV_{CEO} $I_C = 0.5\text{mA}$ Min (V)	$I_{CEO(\text{Dark})}$ $V_{CE} = 20\text{V}$ Max (nA)	$V_{CE(\text{SAT})}$ $I_F = 8\text{mA}$ $I_C = 2.4\text{mA}$ Max (V)	
ISP321-4	Four channel Optocoupler with a Phototransistor Output	50-600	7.5(pk) 5.3(rms)	50	6	80	100	0.4	
ISP521-4		50-600							
ISP621-4		50-600							
ISP847		50-600						35	0.2($I_F = 20\text{mA}$) ($I_C = 1\text{mA}$)
ISP624-4		100-1200 ¹						55	0.4($I_F = 1\text{mA}$) ($I_C = 0.5\text{mA}$)
PS2501-4		80-600						80	0.3($I_F = 10\text{mA}$) ($I_C = 2\text{mA}$)
TIL193		20						35	0.4($I_F = 5\text{mA}$) ($I_C = 1\text{mA}$)
TIL193A		50							
TIL193B		100							
TLP321-4		50-600						80	0.4
TLP521-4		50-600							
TLP621-4		50-600							
TLP624-4		50-600						55	0.4($I_F = 1\text{mA}$) ($I_C = 0.5\text{mA}$)

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

Part Number	Features	Current Transfer Ratio $I_F = \pm 10\text{mA}$ $V_{CE} = 5\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F = \pm 20\text{mA}$ Max (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(\text{Dark})}$ $V_{CE} = 20\text{V}$ Max (nA)	$V_{CE(\text{SAT})}$ Max (V)		
ISP620-4	Four 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 ($I_C = 0.5\text{mA}$)	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						35	100	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		40-125 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 : $I_F = \pm 1\text{mA}$

Part Number	Features	Current Transfer Ratio $I_F = 1\text{mA}$ $V_{CE} = 1\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F = 20\text{mA}$ Max (V)	V_{BR} $I_R = 10\mu\text{A}$ Min (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(\text{Dark})}$ $V_{CE} = 10\text{V}$ Max (nA)	$V_{CE(\text{SAT})}$ Max (V)	
ISP845	Four channel Optocoupler with a Photo-Darlington Transistor	600-7500 ($V_{CE} = 2\text{V}$)	7.5(pk) 5.3(rms)	50mA	1.4	6	35 ($I_C = 0.1\text{mA}$)	100	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 ² /800 ¹							1($I_F = 0.5\text{mA}$) ($I_C = 2\text{mA}$)	
ISP845-3		200 ³ /400 ² /800 ¹							1($I_F = 0.25\text{mA}$) ($I_C = 0.5\text{mA}$)	
PS2502-4		200-2000							80	1($I_F = 1\text{mA}$) ($I_C = 2\text{mA}$)
TIL199		500-7500 ($I_F = 2\text{mA}$)							35	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: $I_F = 1\text{mA}$, $V_{CE} = 1\text{V}$

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

Note 3 Test condition: $I_F = 0.25\text{mA}$, $V_{CE} = 1\text{V}$

16 Pin DIL & SMD Optocouplers

16 Pin Transistor Symmetrical Configuration DIL & SMD Optocouplers

Part Number	Features	Current Transfer Ratio	Min (KV) Isolation Voltage	Forward Current	V_{BR}	BV_{CEO} $I_C=1mA$	$I_{CEO(Dark)}$ $V_{CE}=10V$	$V_{CE(SAT)}$ $I_F=16mA$ $I_C=2mA$		
		$I_F=10mA$ $V_{CE}=10V$ Min (%)	Min (KV)	Max (mA)	Min (V)	Min (V)	Max (nA)	Max (V)		
ILQ1	Four channel Optocoupler with a Phototransistor Output	20-300	7.5(pk) 5.3(rms)	50	6	50	50	0.4		
ILQ2		100-500				70				
ILQ5		50-400								
ILQ74		$12.5(I_F=16mA, V_{CE}=5V)$				50				
IS849		$50(I_F=5mA, V_{CE}=5V)$				35			100 ($V_{CE}=24V$)	0.2($I_F=20mA$) ($I_C=1mA$)
ISQ1		20				50			0.3($I_F=10mA$) ($I_C=2mA$)	
ISQ2		100-500				70			0.4($I_F=5mA$) ($I_C=1mA$)	
ISQ5		50							0.4	
ISQ74		$12.5(I_F=16mA, V_{CE}=5V)$				50				

High CTR, High Sensitivity / Low Input Current

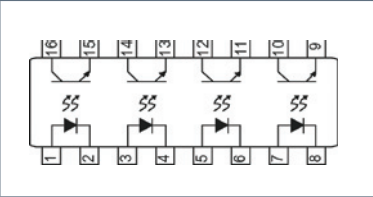
ISQ201	Four channel Optocoupler with a Phototransistor Output	75 (10) ¹	7.5(pk) 5.3(rms)	50	6	70	50	0.4($I_F=10mA$) ($I_C=2mA$)	
ISQ202		125-250 (30) ¹							
ISQ203		225-450 (50) ¹							
ISQ204		200-400 (100) ¹							
ISQ204-1		/50 ²							0.4($I_F=1mA$) ($I_C=0.5mA$)
ISQ204-2		50 ³							0.4($I_F=0.5mA$) ($I_C=0.25mA$)
ISQ204-3		70 ³ /100 ²							0.4($I_F=0.5mA$) ($I_C=0.35mA$)

Note 1 Test Condition: $I_F=1mA$

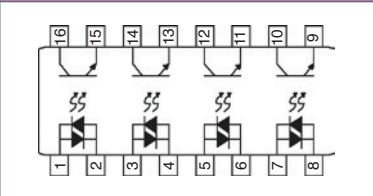
Note 2 Test Condition: $I_F=1mA, V_{CE}=0.4V$

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

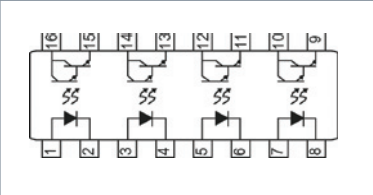
Transistor Output



AC Input



Darlington Output



Symmetrical Configuration

