

Transistor Output									
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)	$I_{CEO(Dark)}$ $V_{CE} = 20\text{V}$ Max (nA)	$V_{CE(SAT)}$ $I_F = 8\text{mA}$ $I_C = 2.4\text{mA}$ Max (V)	
ISP321-2	Two channel Optocoupler with a Phototransistor Output	50-600	7.5(pk) 5.3(rms)	50	6	80	100	0.4	
ISP521-2		50-600							
ISP621-2		50-600							
ISP827		50-600						35	0.2($I_F = 20\text{mA}$) ($I_C = 1\text{mA}$)
ISP624-2		100-1200 ¹						55	
PS2501-2		80-600						80	0.3($I_F = 10\text{mA}$) ($I_C = 2\text{mA}$)
TIL192		20						35	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							
TLP621-2		50-600						55	0.4($I_F = 1\text{mA}$) ($I_C = 0.5\text{mA}$)
TLP624-2		50-600							

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

AC Input										
Part Number	Features	Current Transfer Ratio $I_F = \pm 10\text{mA}$ $V_{CE} = 5\text{V}$ 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)	$I_{CEO(Dark)}$ $V_{CE} = 20\text{V}$ Max (nA)	$V_{CE(SAT)}$ Max (V)		
ISP620-2	Two 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($I_F = \pm 8\text{mA}$) ($I_C = 2.4\text{mA}$)		
ISP626-2		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		40-125 ¹						55	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 conditions: $I_F = \pm 1\text{mA}$

Darlington Output										
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)	$I_{CEO(Dark)}$ $V_{CE} = 10\text{V}$ Max (nA)	$V_{CE(SAT)}$ Max (V)	
ISP825	Two 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($I_F = 20\text{mA}$) ($I_C = 5\text{mA}$)	
ISP825-1		/800 ¹							1($I_F = 1\text{mA}$) ($I_C = 8\text{mA}$)	
ISP825-2		/400 ² /800 ¹							1($I_F = 0.5\text{mA}$) ($I_C = 2\text{mA}$)	
ISP825-3		200 ³ /400 ² /800 ¹							1($I_F = 0.25\text{mA}$) ($I_C = 0.5\text{mA}$)	
PS2502-2		200-2000							80	1($I_F = 1\text{mA}$) ($I_C = 2\text{mA}$)
TIL198		500-7500 ($I_F = 2\text{mA}$)							35	1($I_F = 2\text{mA}$) ($I_C = 10\text{mA}$)
TIL198A		1000-7500 ($I_F = 2\text{mA}$)								
TIL198B		1500-7500 ($I_F = 2\text{mA}$)								

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

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

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

8 Pin DIL & SMD Optocouplers

8 Pin Transistor Symmetrical Configuration DIL & SMD Optocouplers

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)	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)	$V_{CE(\text{SAT})}$ $I_F = 16\text{mA}$ $I_C = 2\text{mA}$ Max (V)
ILD1	Two channel Optocoupler with a Phototransistor Output	20-300	7.5(pk) 5.3(rms)	50	6	50	50	0.4
ILD2		100-500						
ILD5		50-400						
ILD74		12.5 ($I_F = 16\text{mA}$ $V_{CE} = 5\text{V}$)						
IS829		50 ($I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$)						
ISD1		20						
ISD2		100-500						
ISD5		50						
ISD74		12.5 ($I_F = 16\text{mA}$ $V_{CE} = 5\text{V}$)						
MCT6		20						
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						
				3	30	100	0.4	

High CTR, High Sensitivity / Low Input Current

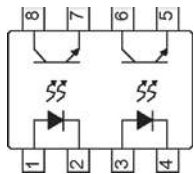
ISD201	Two channel Optocoupler with a Phototransistor Output	75 (10) ¹	7.5(pk) 5.3(rms)	50	6	70	50	0.4($I_F = 10\text{mA}$) ($I_C = 2\text{mA}$)
ISD202		125-250 (30) ¹						
ISD203		225-450 (50) ¹						
ISD204		200-400 (100) ¹						
ISD204-1		/50 ²						
ISD204-2		50/ ³						
ISD204-3		70 ³ /100 ²						
								0.4($I_F = 1\text{mA}$) ($I_C = 0.5\text{mA}$)
								0.4($I_F = 0.5\text{mA}$) ($I_C = 0.25\text{mA}$)
								0.4($I_F = 0.5\text{mA}$) ($I_C = 0.35\text{mA}$)

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

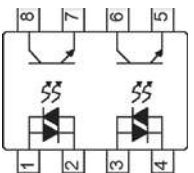
Note 2 Test condition : $I_F = 1\text{mA}$, $V_{CE} = 0.4\text{V}$

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

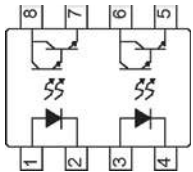
Transistor Output



AC Input



Darlington Output



Symmetrical Configuration

