

Absolute Maximum Ratings (@ 25° C)

Parameter	Min	Тур	Max	Units
Input Power Dissipation	-	-	150 ¹	mW
Input Control Current	-	-	100	mA
Input LED Reverse Voltage	-	-	5	V
Peak (10ms)	-	-	1	Α
Total Package Dissipation	-	-	800 ²	mW
Isolation Voltage				
Input to Output	3750	-	-	V _{RMS}
Operational Temperature	-40		+85	°C
Storage Temperature	-40	-	+125	٦°
Soldering Temperature	-	-	+220	°C
(10 Seconds Max)				

Absolute Maximum Ratings are stress ratings. Stresses in excess of these ratings can cause permanent damage to the device. Functional operation of the device at conditions beyond those indicated in the operational sections of this data sheet is not implied.

¹ Derate Linearly 1.33 mW/°C ² Derate Linearly 6.67 mW/°C

Electrical Characteristics

Parameter	Conditions	Symbol	Min	Тур	Max	Units			
Input Characteristics @ 25°C									
LED Voltage Drop	I _F =2-10mA	V _F	0.9	1.2	1.4	V			
Reverse LED Current	V _R =5V	I _R	-	-	10	μA			
Coupler/Detector Characteristics @ 25°C									
Dark Current	I _F =0mA, V _{CC} =15V	Ι _D	-	1	25	nA			
K1, Servo Gain (I ₁ /I _F)	I _F =2-10mA, V _{CC} =15V	K1	0.008	-	0.030	-			
K2, Forward Gain (I_2/I_F)	I _F =2-10mA, V _{CC} =15V	K2	0.006	-	0.030	-			
K3, Transfer Gain (K ₂ /K ₁)	I _F =2-10mA, V _{CC} =15V	K3	0.733	-	1.072	-			
ΔK3, Transfer Gain Linearity (non-servoed)	I _F =2-10mA	ΔK3	-	-	1.0	%			
K3 Temperature Coefficient	I _F =2-10mA, V _{det} =-5V	ΔΚ3/ΔΤ	-	0.005	-	%/°C			
Common Mode Rejection Ratio	V=20V _{P-P} , R _L =2KΩ, F=100Hz	CMRR	-	130	-	dB			
Total Harmonic Distortion	F ₀ =350Hz, 0dBm	THD	-96	-87	-80	dB			
Frequency Response	Photoconductive Operation	BW (-3dB)	-	200	-	kHz			
	Photovoltaic Operation	BW (-3dB)	-	-	40	kHz			
Input/Output Capacitance	-	C _{I/O}	-	3	-	pF			

NOTE: All parameters above are for each optocoupler.



PERFORMANCE DATA*













* The Performance data shown in the graphs above is typical of device performance. For guaranteed parameters not indicated in the written specifications, please contact our application department.

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MECHANICAL DATA



Tape and Reel Packaging for 16 Pin SOIC Package



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