

Optocoupler, Dual

Features

- Compact, moisture resistant package
- Low LED current
- Passive resistance output

Description

This optical coupler consists of an LED input optically coupled to a photocell. The photocell resistance is high when the LED current is "off" and low resistance when the LED current is "on".

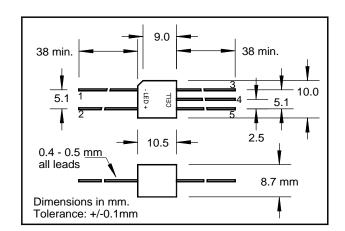
Absolute Maximum Ratings

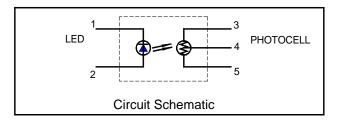
Storage Temperature -40 to +75°C
Operating Temperature -40 to +75°C
Soldering Temperature (2) 260°C
Isolation Voltage (peak) 2500V

Note: (1) Derate linearly to 0 at 75°C

(2) >2 mm from case for <5 sec.

(3) The Rise Time, T_R , is the time required for the dark to light change in conductance to reach 63% of its final value.





Electrical Characteristics (T_A=25°C unless otherwise noted)

Symbol	Parameter	Min	Тур	Max	Units	Test Conditions
LED						
I _F	Forward Current			40	mA	
V_{F}	Forward Voltage			2.5	V	$I_F = 20 \text{ mA}$
V_R	Reverse Voltage			3.0	V	
Cell						
V_{C}	Maximum Cell Voltage			100	V	(Peak AC or DC)
P_D	Power Dissipation			175	mW	(1)
Coupled						
R _{ON}	On Resistance		1.5		ΚΩ	$I_F = 1.0 \text{ mA}$
			150	500	Ω	$I_F = 10 \text{ mA}$
R _{OFF}	Off Resistance	400			ΚΩ	10 sec after $I_F = 0$.
T_R	Rise Time		6.0		msec	Time to 63% of final conductance @ I _F =40mA (3)
T_F	Decay Time			1.5	sec	Time to $100K\Omega$ after removal of $I_F = 40 \text{ mA}$
R _M	On Resistance Matching			±25	%	$I_F = 1.0 \text{ mA}$ and $I_F = 10 \text{ mA}$

Specifications subject to change without notice.

102294 REV 3

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