

Electrical Specifications

Absolute Maximum Ratings ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Reverse Voltage	100 V
Operating Temperature Range	-55°C to $+125^\circ\text{C}$
Storage Temperature Range	-55°C to $+125^\circ\text{C}$
Lead Soldering Temperature [1/16 inch (1.6 mm) from the case for 5 seconds with soldering iron] ⁽¹⁾	260° C
Power Dissipation ⁽²⁾	50 mW

Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	TEST CONDITIONS
$I_L^{(3)(4)}$	Light Current	4.5	-	1,000	μA	$V_R = 20\text{ V}$, $E_E = 5\text{ mW/cm}^2$
I_D	Dark Current	-	-	20	nA	$V_R = 20\text{ V}$, $E_E = 0$
$V_{(BR)R}$	Reverse Voltage Breakdown	30	-	-	V	$I_R = 100\text{ }\mu\text{A}$
t_r	Rise Time	-	100	-	ns	$V_R = 50\text{ V}$, $I_L = 8\text{ }\mu\text{A}$, $R_L = 1\text{ k}\Omega$
t_f	Fall Time	-	100	-		

Notes:

- (1) RMA flux is recommended. Duration can be extended to 10 seconds maximum when flow soldering.
- (2) Derate linearly 0.30 mW/ $^\circ\text{C}$ above 25°C .
- (3) Junction temperature maintained at 25°C .
- (4) Light source is an unfiltered tungsten bulb operating at $CT = 2870\text{ K}$ or equivalent infrared source.

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

Typical Performance

