

**FEATURES**

- High Sensitivity
- Low Capacitance
- Short Switching Time
- Surface Mount Package

**Electro-Optical Characteristics at 25°C**

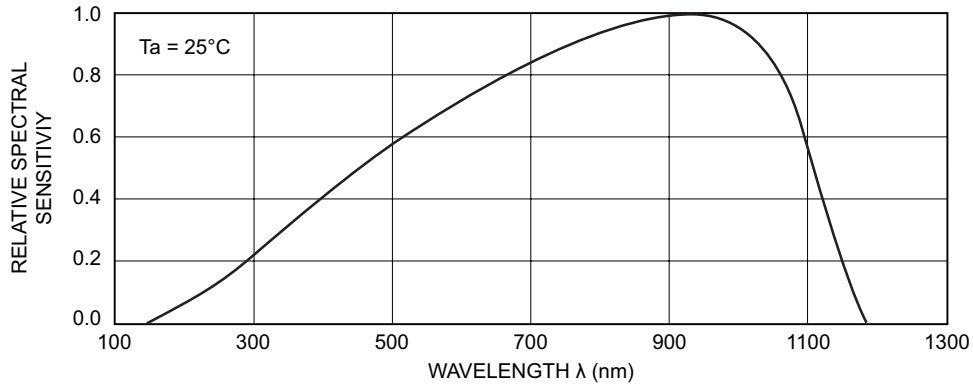
Parameters	Test Conditions	Min	Typ	Max	Units
Range of Spectral Bandwidth, $\lambda_{0.5}$		400		1100	nm
Wavelength of Peak Sensitivity, $\lambda_P$			940		nm
Responsivity	$\lambda_P = 940 \text{ nm}$		0.44		A/W
Reverse Dark Current, $I_P$	$V_R = 10 \text{ V}$		5		nA
Reverse Breakdown Voltage, $B_{VR}$	$I_R = 100 \mu\text{A}$	32	170		Volts
Total Capacitance, $C_t$	$V_R = 3 \text{ V}, f = 1 \text{ MHz}$		25		pF
Rise/Fall Time, $t_r/t_f$	$V_R = 10 \text{ V}, R_L = 1 \text{ K}\Omega$		50/50		nsec

**Thermal Parameters**

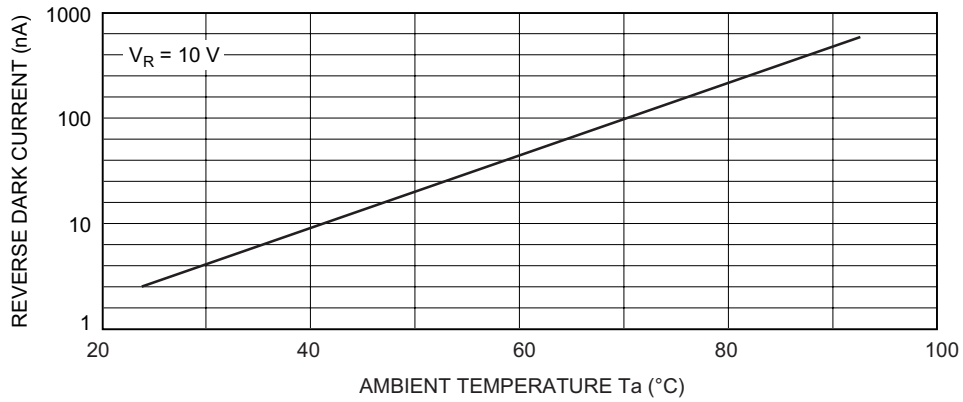
Parameters	Units
Operating Temperature Range	-25°C to +85°C
Storage Temperature Range	-40°C to +85°C
Power Dissipation at (or below) 25°C Free Air Temperature	150 mW
Soldering Temperature <sup>1</sup> (soldering time 5 sec max)	260°C

Note: Minimum direct order quantity 10,000 pieces.

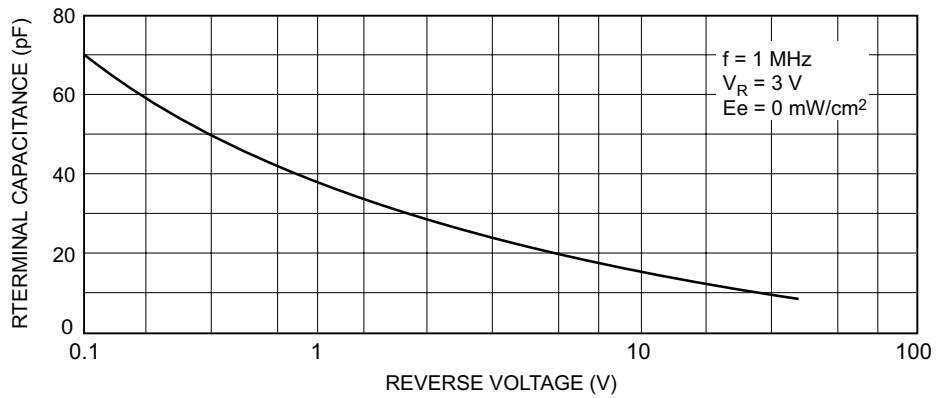
Spectral Sensitivity



Dark Current vs Ambient Temperature

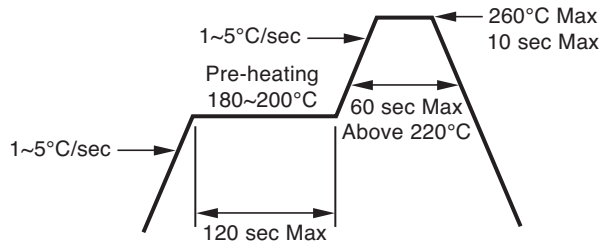


Terminal Capacitance vs Reverse Voltage



## 1 Soldering Conditions

### 1.0 Pb-free solder temperature profile



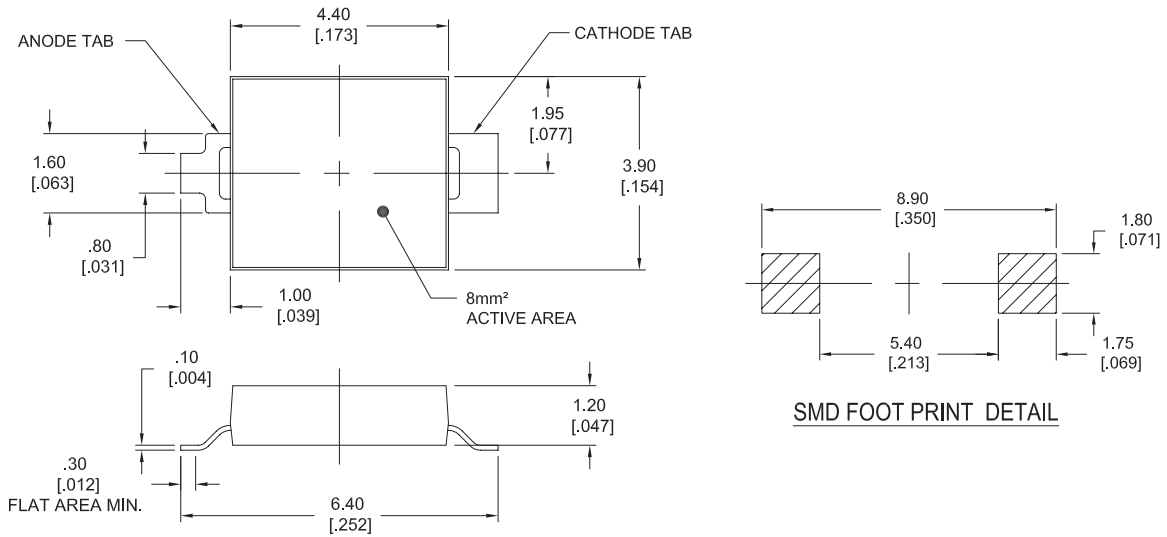
- 1.1 Reflow soldering should not be done more than twice
- 1.2 Do not stress the PD while soldering
- 1.3 Don't flex the circuit board after soldering

### 2.0 Soldering Iron

- 2.1 Each terminal should touch the tip of soldering iron (at 280°C) for less than for three seconds. Use a minimum two second interval between soldering each terminal. Use caution as product damage is often started during hand soldering.
- 2.2 The tip of soldering iron (at 280°) should be in contact with each terminal for less than three seconds. Pause for a minimum two second interval between soldering each terminal. Use caution as damage to the PD is often started during hand soldering.



**Package Dimensions**



Dimensions are in metric [inch] units.

Specifications are subject to change without prior notice.

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