



### **FEATURES**

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

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

Parameters	Test Conditions	Min	Тур	Max	Units
Range of Spectral Bandwidth, $\lambda_{0.5}$		400		1100	nm
Wavelength of Peak Sensitivity, $\lambda_P$			940		nm
Responsivity	λ <sub>P</sub> = 940 nm		0.44		A/W
Reverse Dark Current, IP	V <sub>R</sub> = 10 V		5		nA
Reverse Breakdown Voltage, B <sub>VR</sub>	I <sub>R</sub> = 100 μA	32	170		Volts
Total Capacitance, Ct	V <sub>R</sub> = 3 V, f = 1 MHz		25		pF
Rise/Fall Time, t <sub>r</sub> /t <sub>f</sub>	V <sub>R</sub> = 10 V, RL = 1 KΩ		50/50		nsec

# **Thermal Parameters**

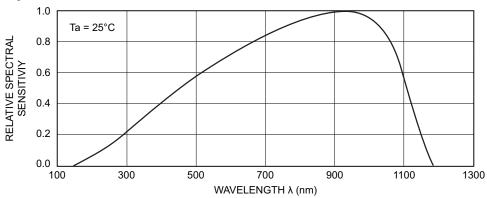
Parameters	Units		
Operating Temperature Range	-25°C to +85°C		
Storage Temperature Range	-40°C to +85°C		
Power Dissipation at (or below) 25°C Free Air Temperature	150 mW		
Soldering Temperature <sup>1</sup> (soldering time 5 sec max)	260°C		

Note: Minimum direct order quantity 10,000 pieces.

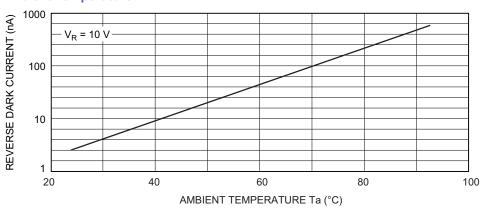
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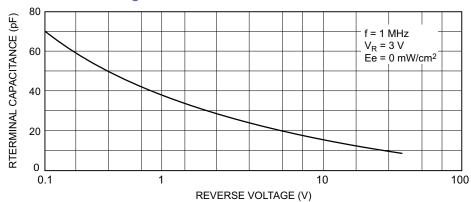
## **Spectral Sensitivity**



## **Dark Current vs Ambient Temperature**



# **Terminal Capacitance vs Reverse Voltage**

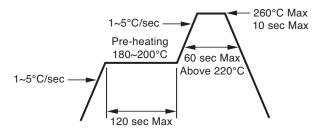


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# <sup>1</sup> Soldering Conditions

#### 1.0 Pb-free solder temperature profile



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

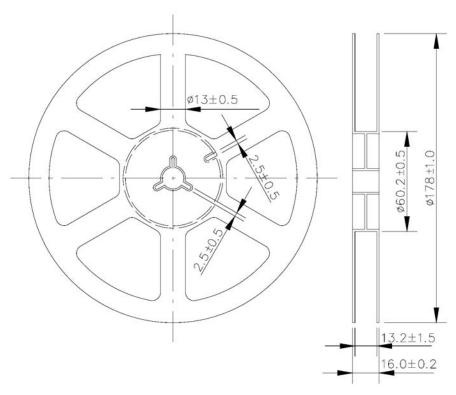
### 2.0 Soldering Iron

- 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.

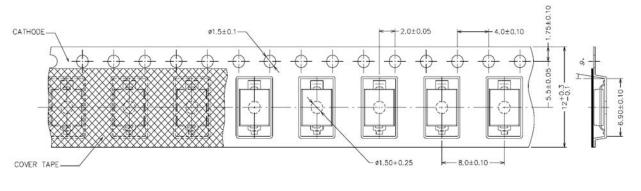
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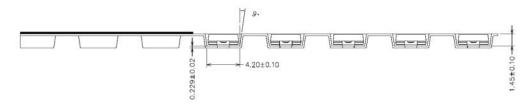


## **Package Dimensions**



# Loaded Quantity Per Reel 1000 PCS/Reel

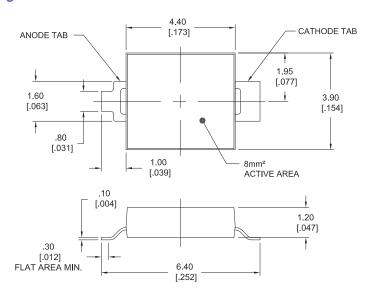


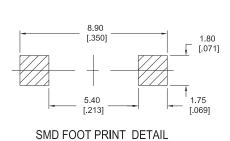


Dimensions are in mm units.



## **Package Dimensions**





Dimensions are in metric [inch] units.

Specifications are subject to change without prior notice.

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