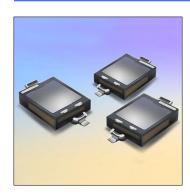
Surface Mount Photodiode



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, λ_P			940		nm
Responsivity	$\lambda_P = 940 \text{ nm}$		0.44		A/W
Reverse Dark Current, I _P	V _R = 10 V		5		nA
Reverse Breakdown Voltage, B _{VR}	I _R = 100 μA	32	170		Volts
Total Capacitance, Ct	V _R = 3 V, f = 1 MHz		25		pF
Rise/Fall Time, t _r /t _f	V _R = 10 V, RL = 1 KΩ		50/50		nsec

Thermal Parameters

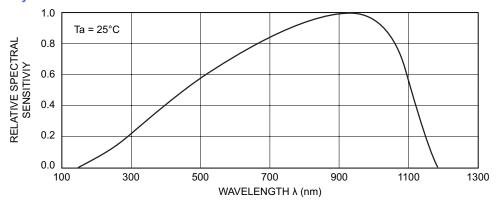
Parameters	Units		
Operating Temperature Range	-25°C to +85°C		
Storage Temperature Range	-40°C to +85°C		
Power Dissipation at (or below) 25°C Free Air Temperature	150 mW		
Soldering Temperature ¹ (soldering time 5 sec max)	260°C		

Note: Minimum direct order quantity 10,000 pieces.

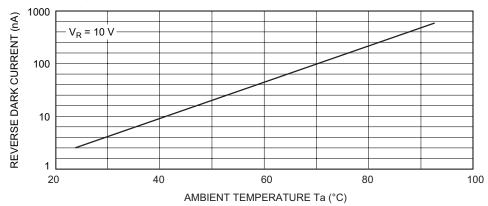
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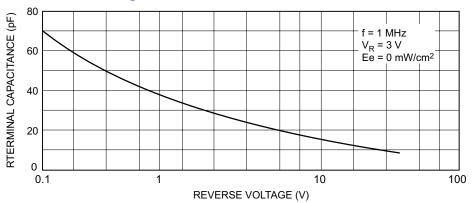
Spectral Sensitivity



Dark Current vs Ambient Temperature



Terminal Capacitance vs Reverse Voltage

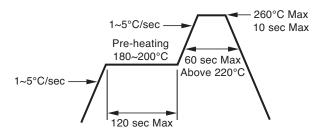


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Surface Mount Photodiode

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

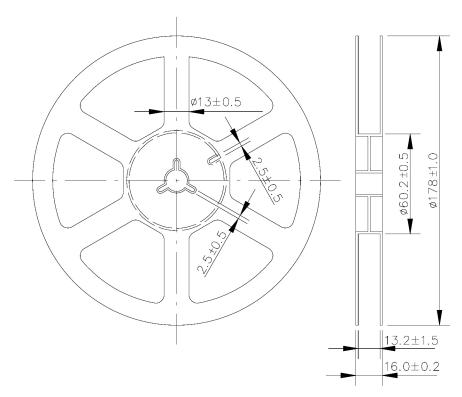
2.0 Soldering Iron

- 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.

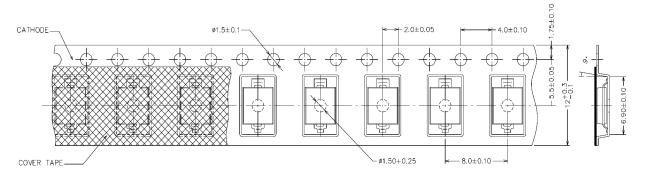
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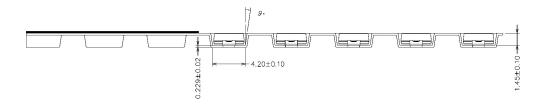


Package Dimensions



Loaded Quantity Per Reel 1000 PCS/Reel



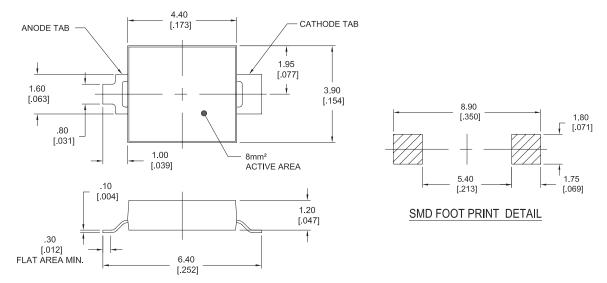


Dimensions are in mm units.

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Surface Mount Photodiode

Package Dimensions



Dimensions are in metric [inch] units.

Specifications are subject to change without prior notice.

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