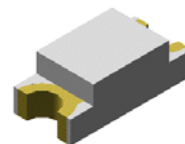


1206 SMD Package Silicon Photodiode

OD 5D38

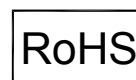
Features

- High radiant sensitive
- Low junction capacitance
- Wide radiant sensitive area
- Fast respond speed.
- Pb free
- Lens in water clear



Applications

- Industrial electronics
- Measurement
- Control Circuit
- Interrupter



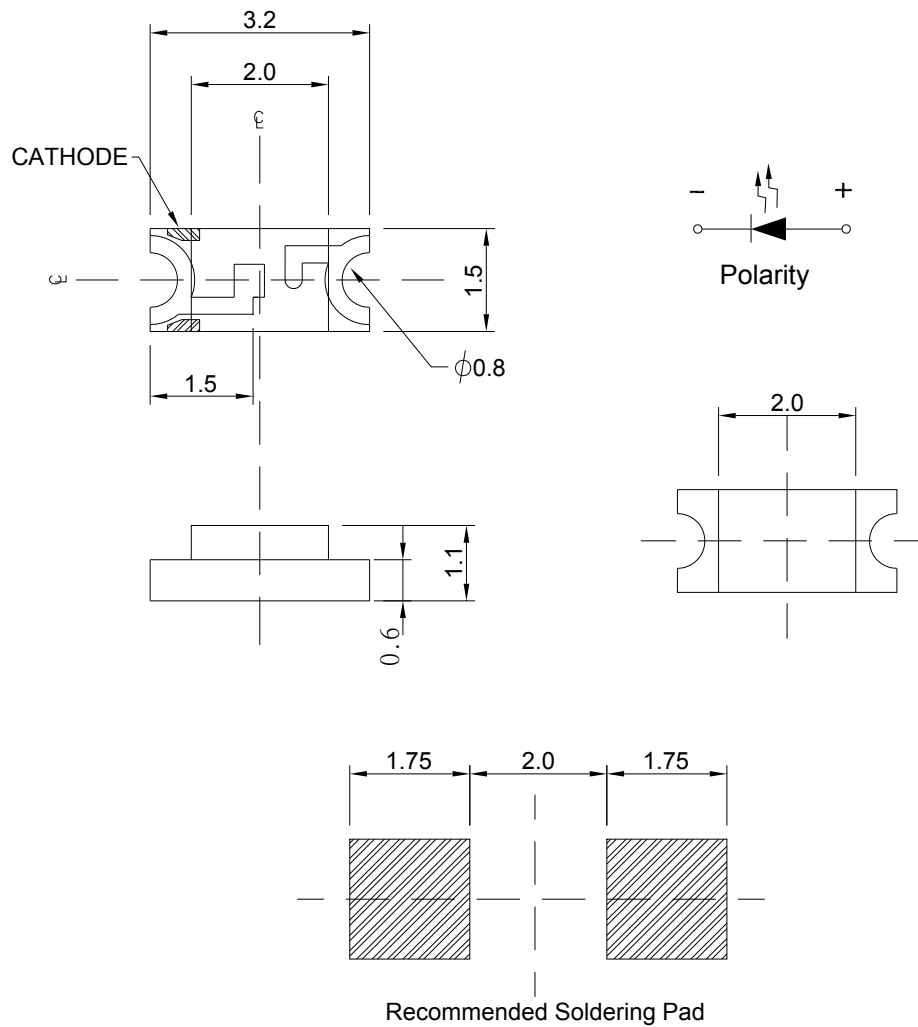
Absolute Maximum Rating at Ta =25°C, unless otherwise specified

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	32	V
Power Dissipation	P_d	150	mW
Operating Temperature Range	T_{opr}	-30 to + 85	°C
Storage Temperature	T_{stg}	-40 to + 85	°C
Iron Soldering Temperature	T_{sol}	350+/- 5 for 3 sec	°C

Note: Please take note the Absolute Maximum Rating values. Any operation beyond the specified ratings in this table will result degradation of LED life- span and may cause LED to fail.

Package Dimension:

unit : mm



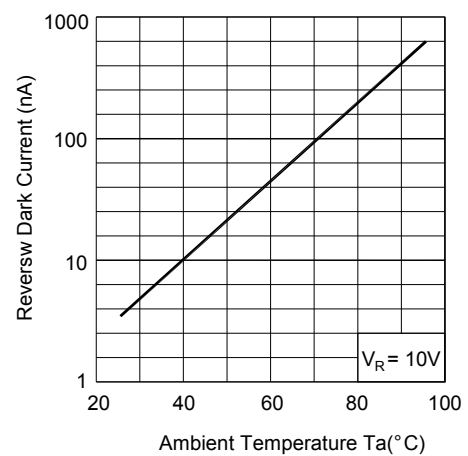
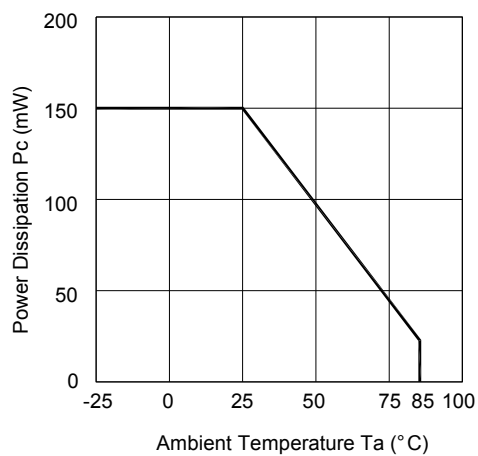
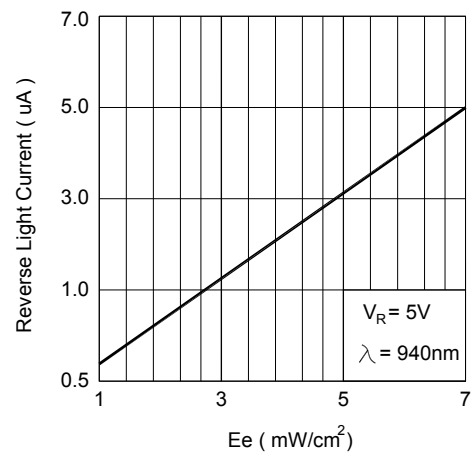
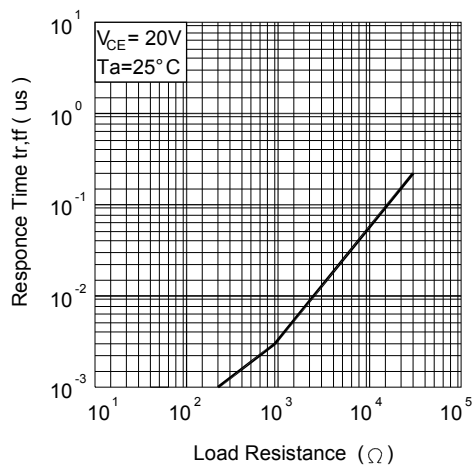
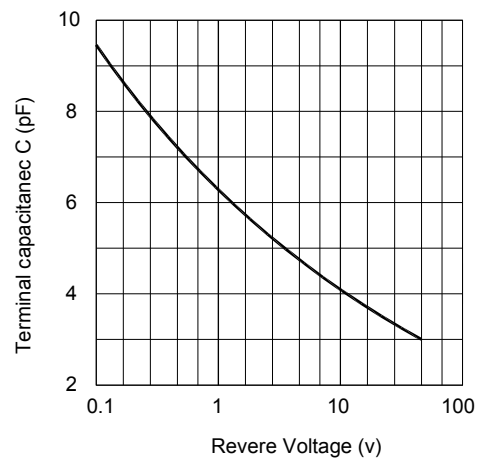
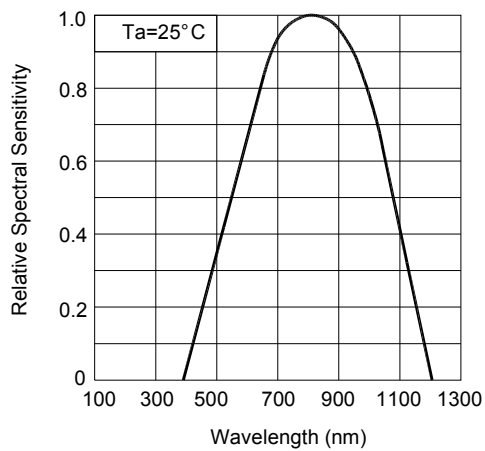
Notes:

1. All dimensions are millimeters.
2. Tolerance is $\pm 0.2\text{mm}$ unless otherwise specified.
3. Specifications are subject to change without notice.

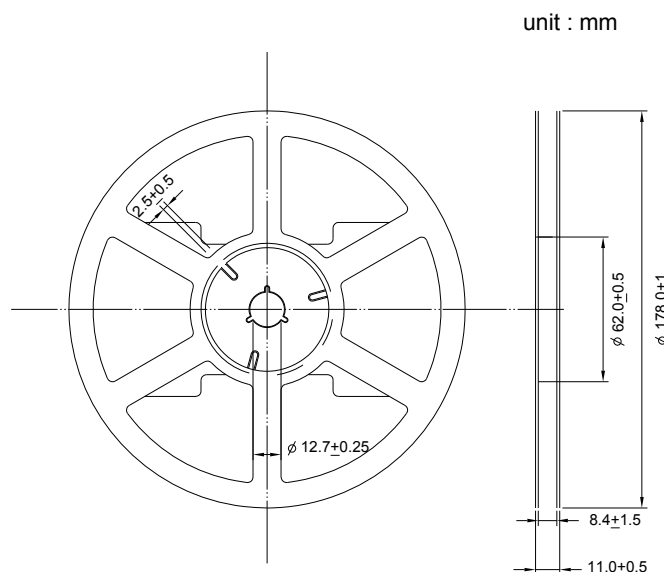
Optical Characteristics at Ta=25°C, unless otherwise specified

Parameter	Test condition	Symbol	Min	Typ.	Max	Unit
Open Circuit Voltage	Ee = 5mW/cm ² λ_p = 940nm	Voc	---	0.42	---	V
Short Circuit Current		Isc	---	3.0	---	μ A
Dark Current	Ee = 0mW/cm ² VR = 10V	ID	---	--	10	nA
Reverse Light Current	Ee = 1mW/cm ² λ_p = 940nm VR = 5V	IL	---	3.0	--	μ A
Total Capacitance	Ee = 0mW/cm ² VR = 5V f=1MHz	Ct	---	5	---	pF
Reverse Breakdown Voltage	Ee = 0mW/cm ² IR=100 μ A	BVR	32	170	---	V
Range of Spectral Bandwidth	---	$\lambda_{0.5}$	400	---	1200	nm
Wavelength of Peak Sensitivity	---	λ_p	---	940	---	nm
Rise Time	VR=5V, RL=1000 Ω	tr	---	6	---	nS
Fall Time		tf		6	---	

Optical Characteristics Curves

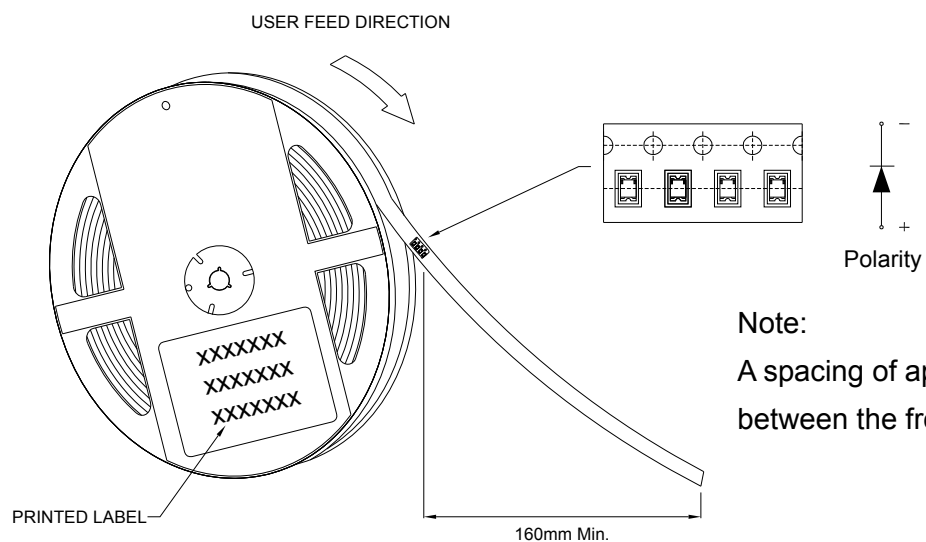


Reel Dimension:



Note:

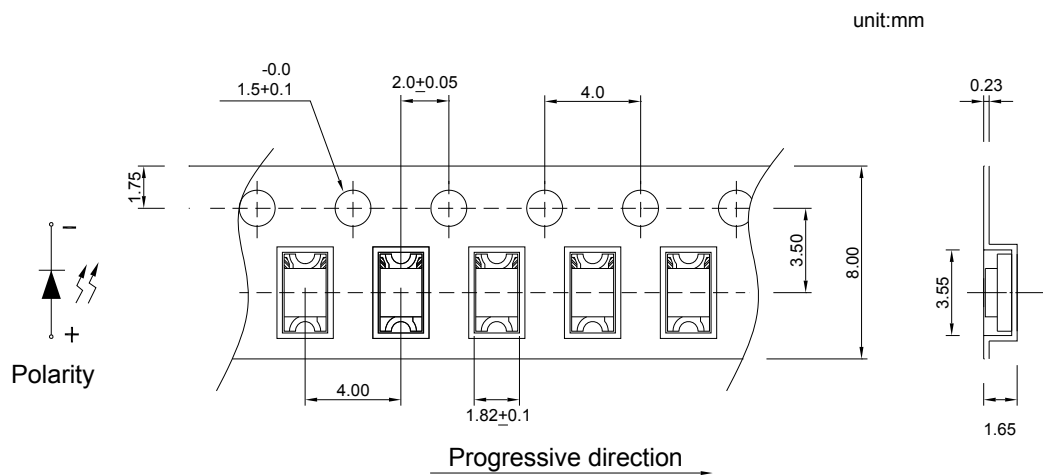
Available in 8mm carrier tape on 178mm diameter reels. (2000 pieces)



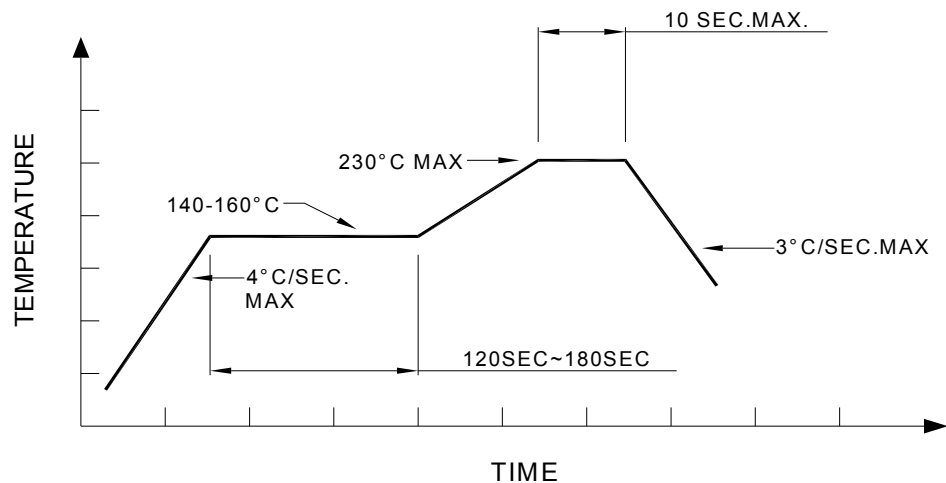
Note:

A spacing of approximately 160mm between the front edge of tape

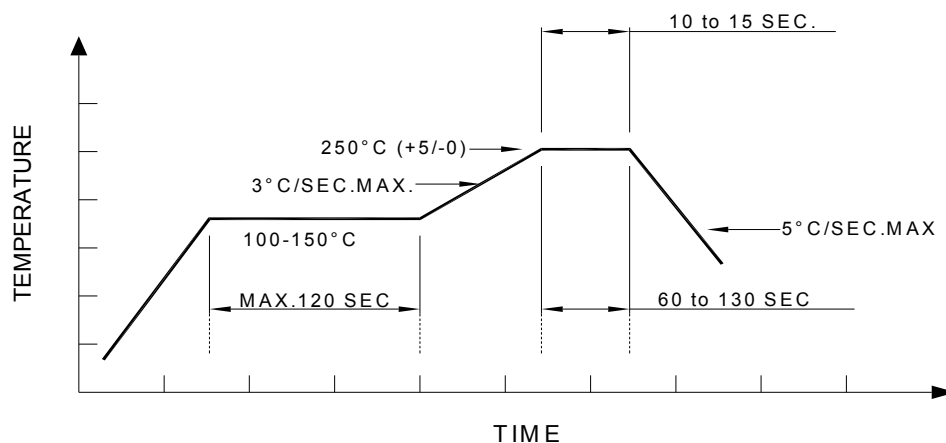
Tape Dimension:



Recommended re-flow soldering profile:



Recommended Pb-free re-flow soldering profile:



Note:

All the specifications listed in this data sheet are suitable for general electronic equipment, office equipment and communication devices. Kindly consult Sales Representatives for specific reliabilities request, Forward Voltage, Luminous Intensity, Wavelength, Radiant Power or Viewing Angle.