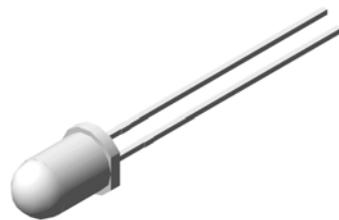


5mm Round Package Silicon Photodiode

OD T538

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

RoHS



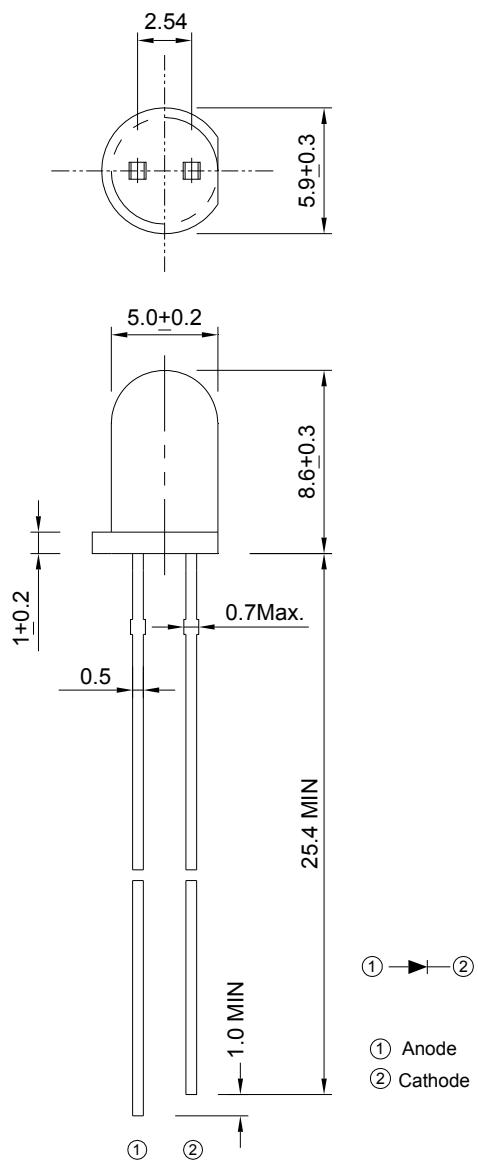
Absolute Maximum Rating at Ta=25°C,unless otherwise specified

Parameter	Symbol	Value	Unit
Reverse Voltage	V _R	32	V
Power Dissipation	P _d	150	mW
Operating Temperature Range	T _{opr}	-40 to + 85	°C
Storage Temperature	T _{stg}	-40 to + 85	°C
Soldering Temperature	T _{sol}	260+/- 5 for 5 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	---	0.4	---	V
Short Circuit Current	Ee = 1mW/cm ² λ p= 940nm	Isc	---	40	---	μA
Dark Current	Ee = 0mW/cm ² VR = 10V	Id	---	5	30	nA
Reverse Light Current	Ee = 1mW/cm ² λ p= 940nm VR = 5V	Ir	36	40	---	μA
Total Capacitance	Ee = 0mW/cm ² VR = 5V f=1MHz	Ct	---	18	---	pF
Reverse Breakdown Voltage	Ee = 0mW/cm ² IR=100 μA	BVR	32	175	---	V
Range of Spectral Bandwidth	---	λ _{0.5}	400	---	1100	nm
Wavelength of Peak Sensitivity	---	λ _p	---	940	---	nm
Viewing Angle	IF= 20mA	2θ 1/2		80		degree
Rise Time	VR=10V, RL=100Ω	tr	---	45	---	nS
Fall Time		tf		45	---	

Optical Characteristics Curves

