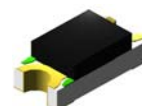


3215 SMD Package Silicon Photodiode

OD 5D47

Features

- High radiant sensitive
- Low junction capacitance
- Wide radiant sensitive area
- Fast respond speed.
- Daylight filter
- Lens in black color



Applications

- Industrial electronics
- Measurement
- Control Circuit
- Interrupter



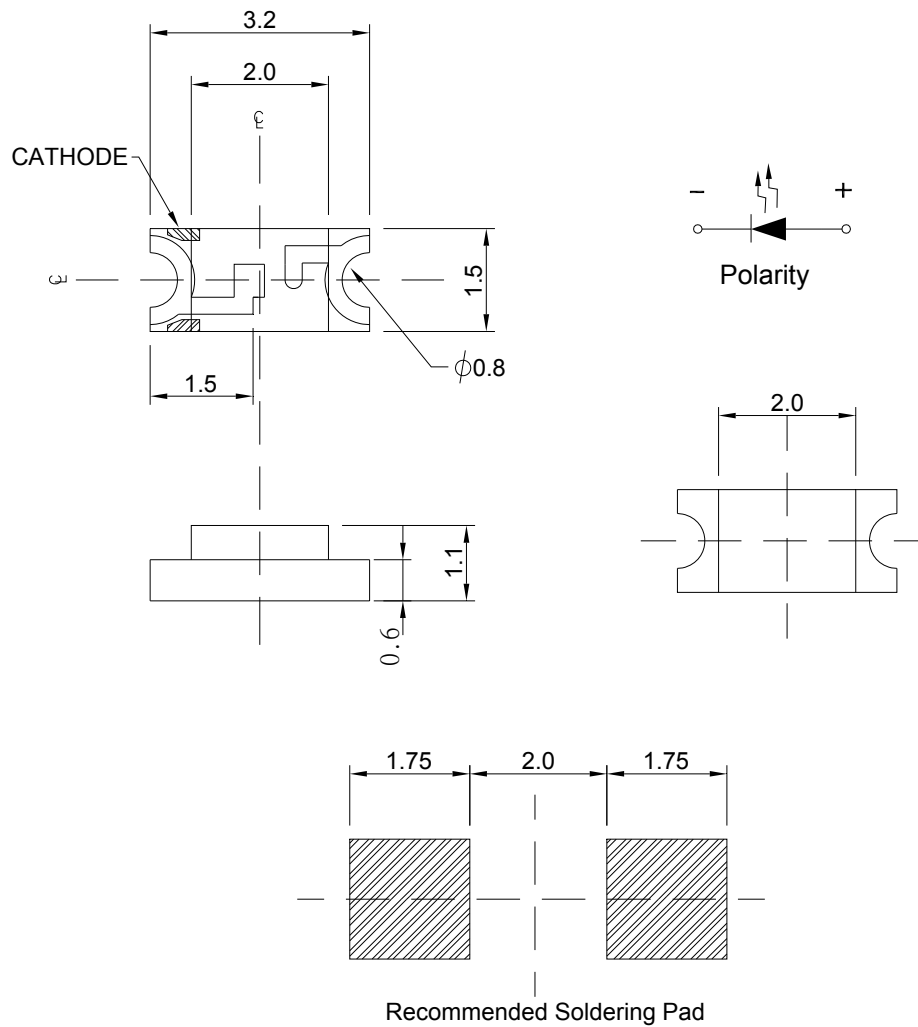
Absolute Maximum Rating at Ta =25°C, unless otherwise specified

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



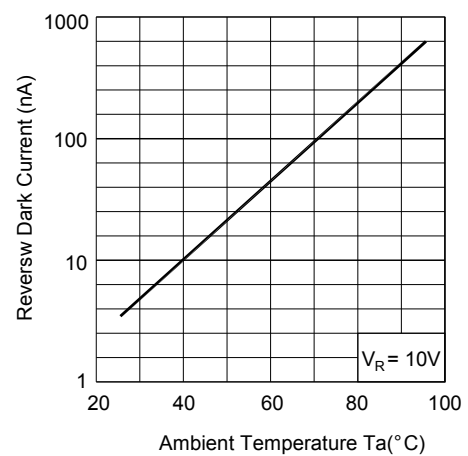
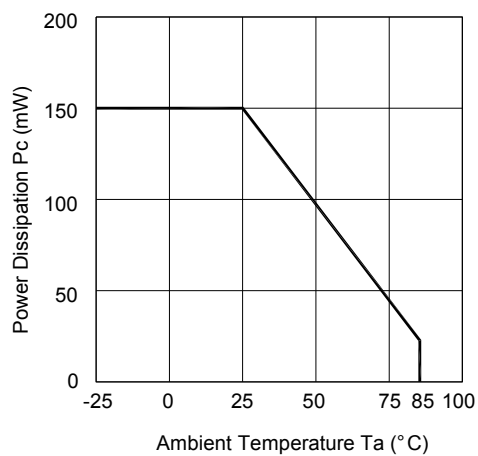
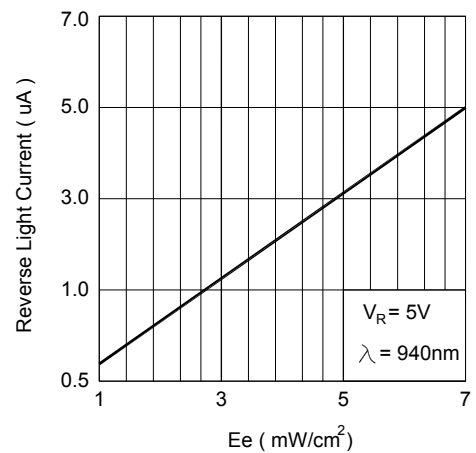
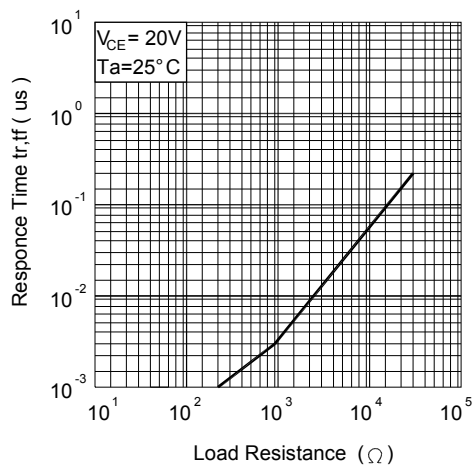
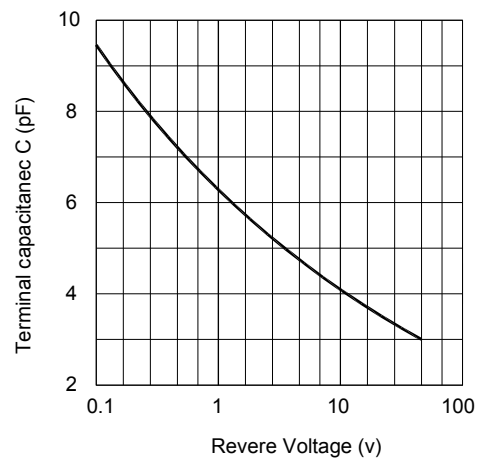
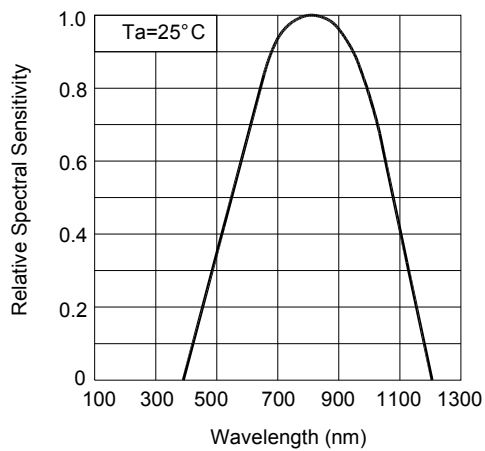
Notes:

1. All dimensions are millimeters.
2. Tolerance is ± 0.2 mm unless otherwise specified.
3. Specifications are subject to change without notice.

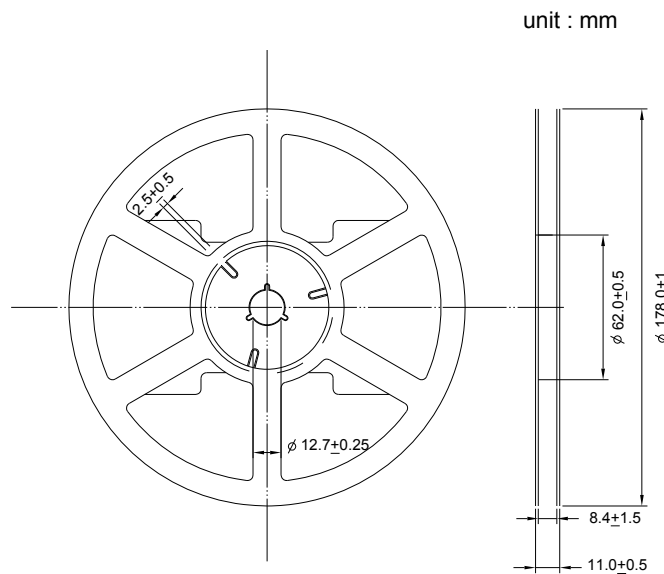
Optical Characteristics at Ta=25°C, unless otherwise specified

Parameter	Test condition	Symbol	Min	Typ.	Max	Unit
Open Circuit Voltage	$E_e = 5\text{mW/cm}^2$ $\lambda_p = 940\text{nm}$	V_{oc}	---	0.42	---	V
Short Circuit Current	$E_e = 1\text{mW/cm}^2$ $\lambda_p = 875\text{nm}$	I_{sc}	---	0.8	---	μA
Dark Current	$E_e = 0\text{mW/cm}^2$ $V_R = 10\text{V}$	I_D	---	--	10	nA
Reverse Light Current	$E_e = 1\text{mW/cm}^2$ $\lambda_p = 875\text{nm}$ $V_R = 5\text{V}$	I_L	0.2	0.8	--	μA
Total Capacitance	$E_e = 0\text{mW/cm}^2$ $V_R = 5\text{V}$ $f = 1\text{MHz}$	C_t	---	5	---	pF
Reverse Breakdown Voltage	$E_e = 0\text{mW/cm}^2$ $I_R = 100\mu\text{A}$	BV_R	32	170	---	V
Range of Spectral Bandwidth	---	$\lambda_{0.5}$	730	---	1100	nm
Wavelength of Peak Sensitivity	---	λ_p	---	940	---	nm
Rise Time	$V_R = 5\text{V}$, $R_L = 1000\Omega$	t_r	---	6	---	nS
Fall Time		t_f		6	---	

Optical Characteristics Curves

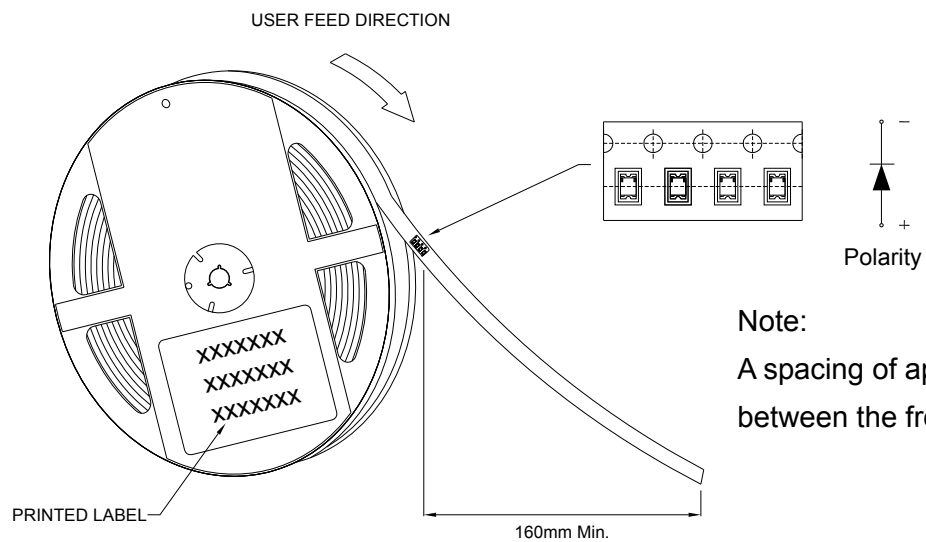


Reel Dimension:



Note:

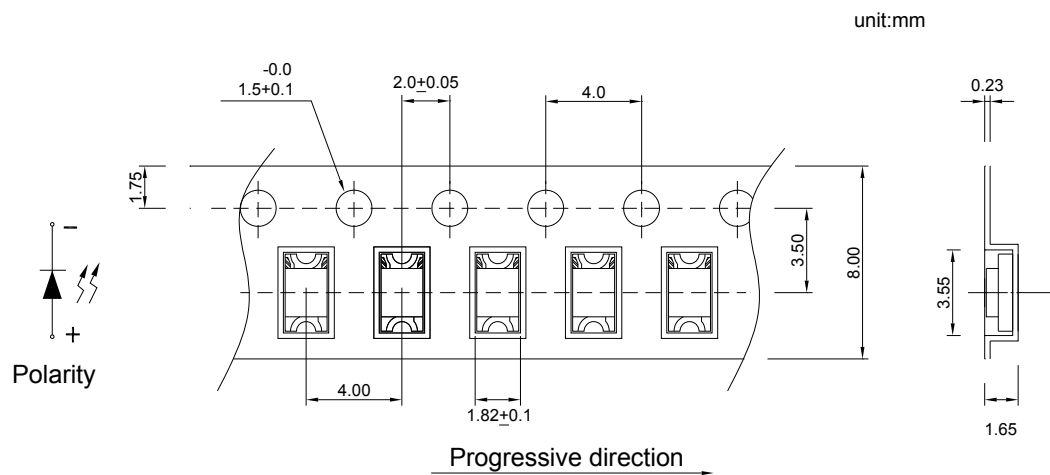
Available in 8mm carrier tape on 178mm diameter reels. (2000 pieces)



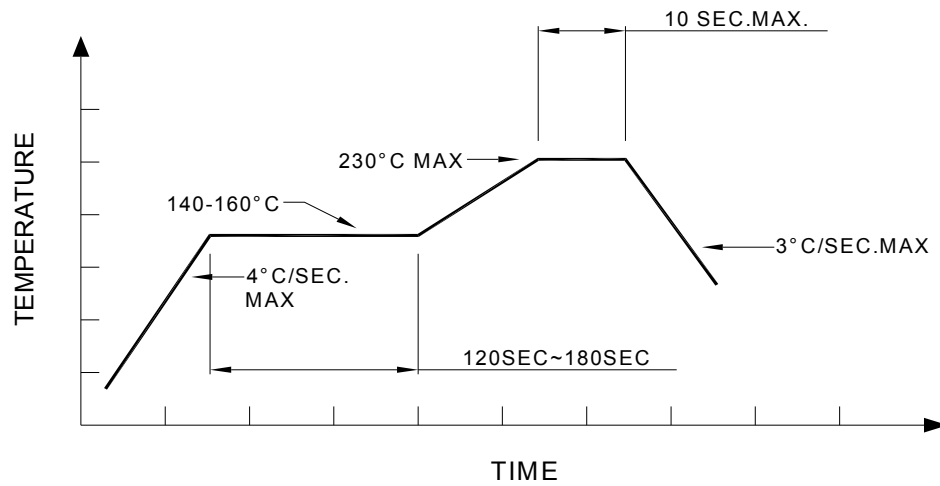
Note:

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:

