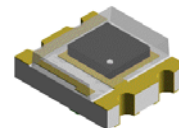


3328 SMD Package Silicon Photodiode

OD 5A38

Features

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



Applications

- Industrial electronics
- Measurement
- Control Circuit
- Interrupter



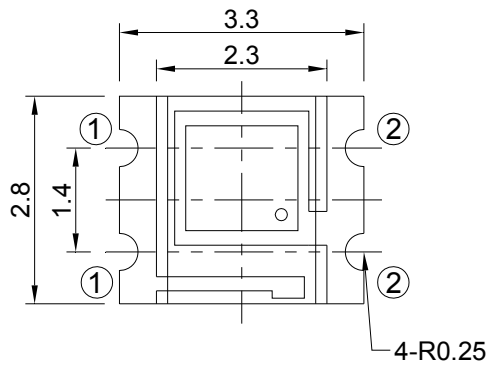
Absolute Maximum Rating $T(\text{amb}) = 25^{\circ}\text{C}$, unless otherwise specified

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	32	V
Power Dissipation	P_C	150	mW
Operating Temperature Range	T_{opr}	-20 to + 85	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-40 to + 85	$^{\circ}\text{C}$
Iron Soldering Temperature	T_{sol}	350+/- 5 for 3 sec	$^{\circ}\text{C}$

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:

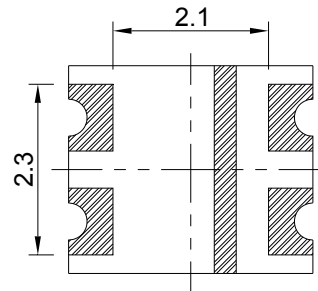
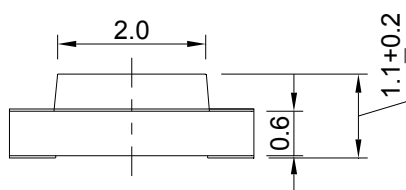
unit:mm



Polarity

① Anode

② Cathode



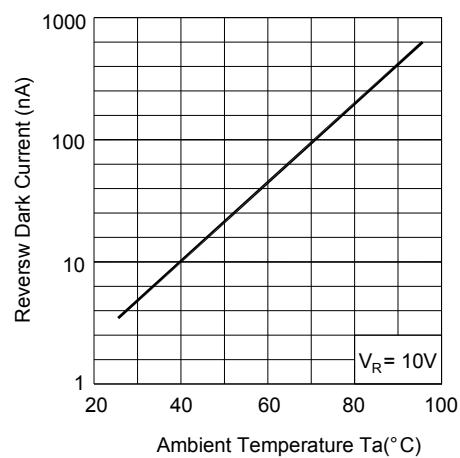
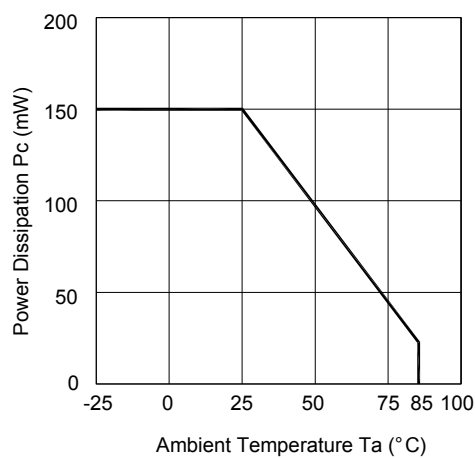
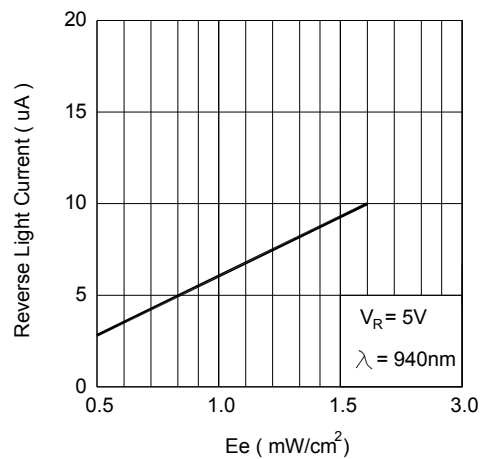
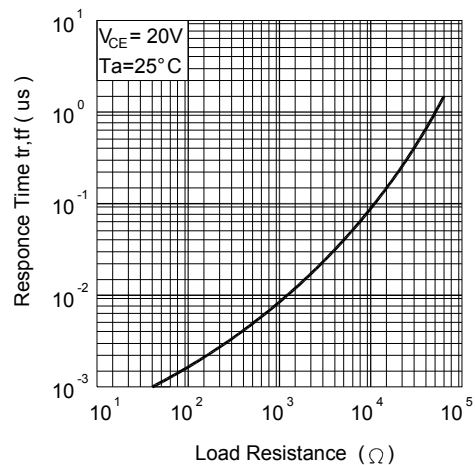
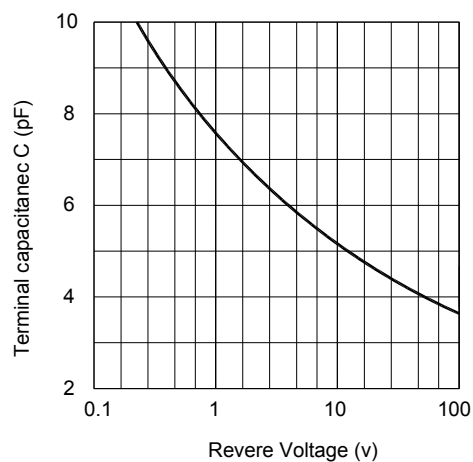
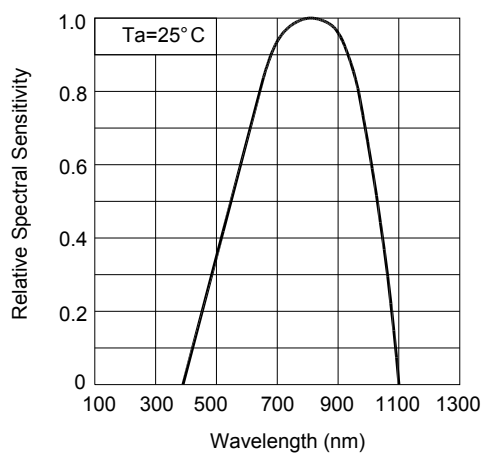
Notes:

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

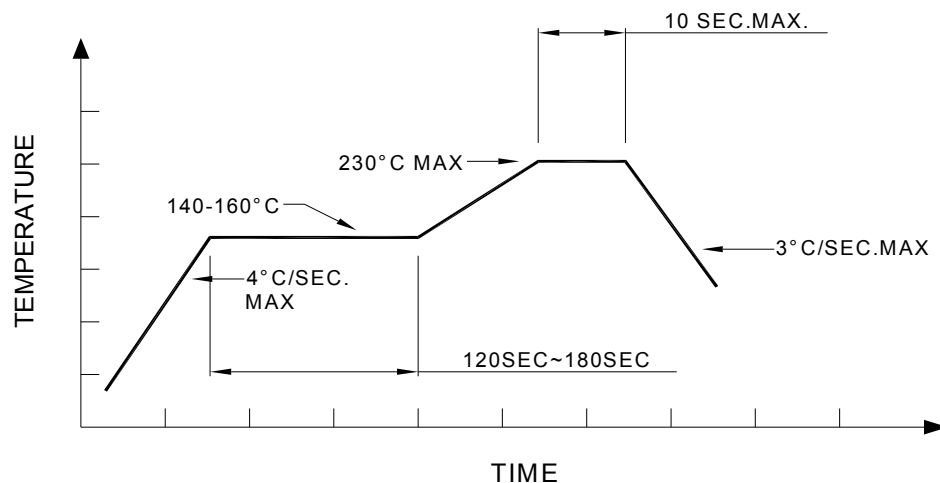
Optical Characteristics Tamb=25°C, unless otherwise specified

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}	---	0.4	---	V
Short Circuit Current	$E_e = 1\text{mW/cm}^2$ $\lambda_p = 875\text{nm}$	I_{sc}	---	6.5	---	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	4.2	6.5	---	μA
Total Capacitance	$E_e = 0\text{mW/cm}^2$ $V_R = 5\text{V}$ $f = 1\text{MHz}$	C_t	---	6	---	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	---	$\lambda_{0.5}$	400	---	1100	nm
Wavelength of Peak Sensitivity	---	λ_p	---	940	---	nm
Rise Time	$V_R = 5\text{V}, R_L = 1000\Omega$	t_r	---	10	---	nS
Fall Time		t_f		10	---	

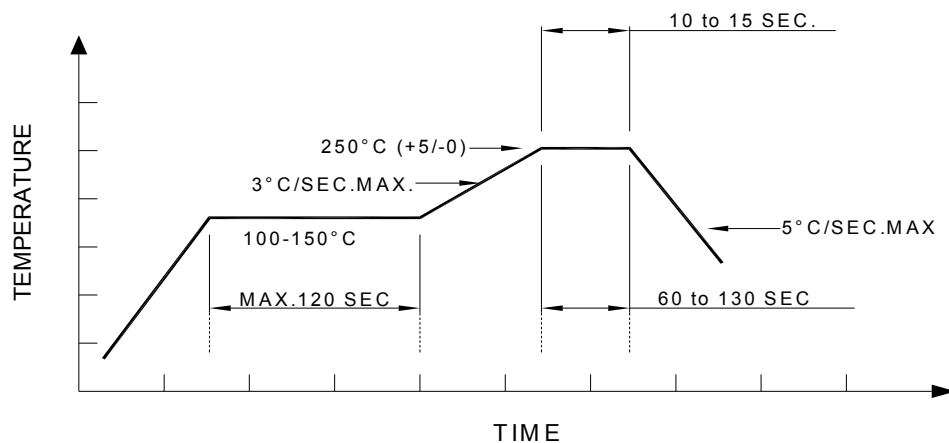
Optical Characteristics Curves



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.