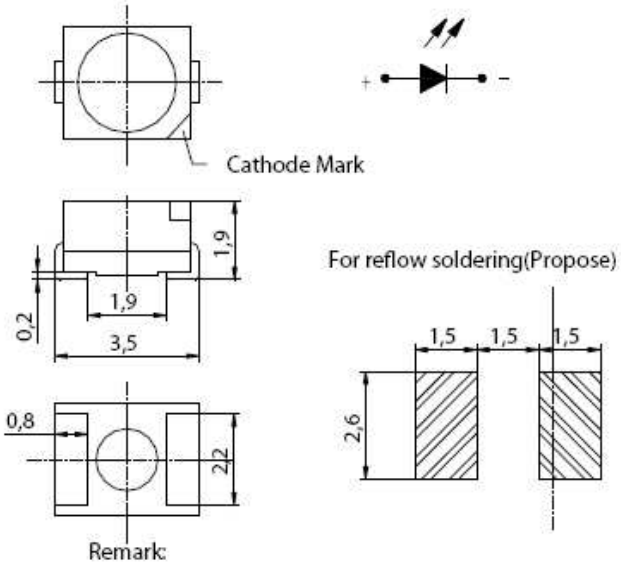
BALIZA INFRARROJOS



Features

- High reliability
- High radiant intensity
- Peak wavelength λp=940nm
- 2.54mm Lead spacing
- Low forward voltage
- The product itself will remain within RoHS compliant version.

P.I.Valdeconsejo C/ Guara, Parcela 5E, 50.410 Cuarte de Huerva –ZARAGOZA-
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Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit
Continuous Forward Current	I_F	40	mA
Peak Forward Current	I_{FP}	1	A
Reverse Voltage	V_R	5	V
Operating Temperature	T_{opr}	-40 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +85	°C
Soldering Temperature	T_{sol}	260	°C
Power Dissipation at25°C Free Air Temperature	P_d	70	mW

Notes:

1. I_{FP} Conditions--Pulse Width ≦ 100μs and Duty ≦ 1%.
2. Soldering time ≦ 5 seconds.

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Radiant Intensity	I_E	I_F=20mA	7.8	15	--	mW/sr
Radiant Intensity	I_E	I_F=100mA Pulse Width ≦ 100μs ,Duty ≦ 1%	--	140	--	mW/sr
Radiant Intensity	I_E	I_F=1A Pulse Width ≦ 100μs ,Duty ≦ 1%	--	940	--	mW/sr
Peak Wavelength	λp	I_F=20mA	--	940	--	nm
Spectrial Bandwidth	Δλ	I_F=20mA	--	45	--	nm
Forward	V_F	I_F=20mA		1.45	1.65	V
Forward	V_F	I_F=100mA Pulse Width ≦ 100μs ,Duty ≦ 1%	--	1.8	2.40	V
Forward Voltage	V_F	I_F=1A Pulse Width ≦ 100μs ,Duty ≦ 1%	--	4.1	5.25	V
Reverse Current	I_R	V_R=5V	--	--	5	μA
View Angle	2θ1/2	I_F=20mA	--	120	--	deg
Distance can be measured	D	I_F=100mA	--	--	2.5	mi
Height can be measured	D	I_F=100mA	--	--	800	ft

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1. Over-current-proof

Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change (Burn out will happen).

2. Storage

2.1 Do not open moisture proof bag before the products are ready to use.

2.2 Before opening the package: The LEDs should be kept at 30°C or less and 90%RH or less.

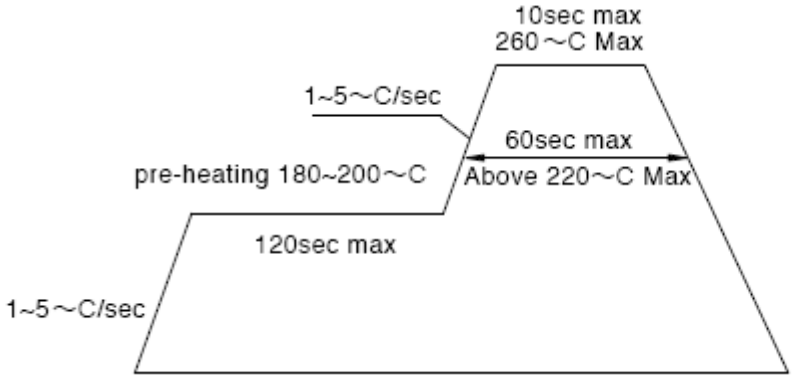
2.3 After opening the package: The LED's floor life is 1 year under 30°C or less and 60% RH or less.

2.4 If unused LEDs remain, it should be stored in moisture proof packages.

2.5 If the moisture absorbent material (silica gel) has faded away or the LEDs have exceeded the storage time, baking treatment should be performed using the following conditions.Baking treatment : 60±5°C for 24 hours..

3. Soldering Condition

3.1 Pb-free solder temperature profile



3.2 Reflow soldering should not be done more than two times.

3.3 When soldering, do not put stress on the LEDs during heating.

3.4 After soldering, do not warp the circuit board.

Soldering Iron

Each terminal is to go to the tip of soldering iron temperature less than 350°C for 3 seconds within once in less than the soldering iron capacity 25W. Leave two seconds and more intervals, and do soldering of each terminal. Be careful because the damage of the product is often started at the time of the hand soldering.

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