

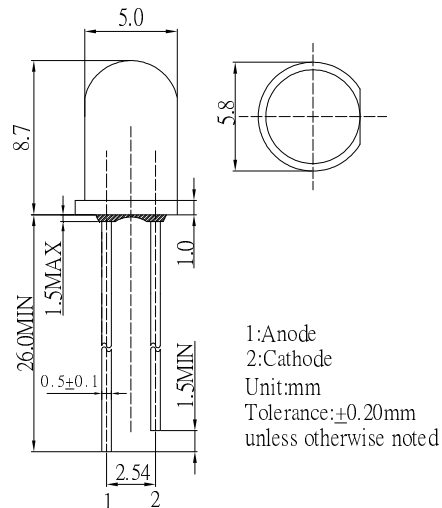
■Features

- High Radiant Power LEDs
- 5mm Standard Directivity
- UV Resistant Epoxy
- Water Clear Type

■Applications

- IrDA
- Encoder
- Data Communication
- IR camera

■Outline Dimension

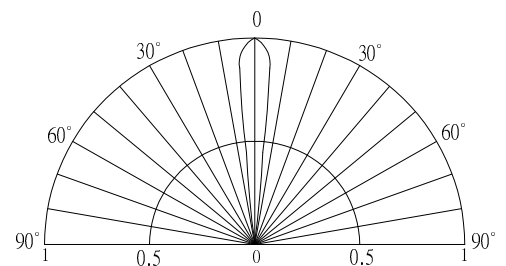


■Absolute Maximum Rating (Ta=25°C)

Item	Symbol	Value	Unit
DC Forward Current	I_F	70	mA
Pulse Forward Current*	I_{FP}	700	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	126	mW
Operating Temperature	T_{opr}	-30 ~ +85	°C
Storage Temperature	T_{stg}	-40~ +100	°C
Lead Soldering Temperature	T_{sol}	260°C/5sec	-

*Pulse width Max.10ms Duty ratio max 1/10

■Directivity



■Electrical -Optical Characteristics (Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage	V_F	$I_F=50mA$	-	1.6	1.8	V
DC Reverse Current	I_R	$V_R=5V$	-	-	10	μA
Peak Wavelength	λ_p	$I_F=50mA$	-	850	-	nm
Radiant Intensity	I_e	$I_F=50mA$	150	220	330	mW/Sr
Radiant Power	P_o	$I_F=50mA$	15	30	45	mW
50% Power Angle	$2\theta_{1/2}$	$I_F=50mA$	-	15	-	deg

*1 Tolerance of measurements of Peak wavelength is ±1nm

*2 Tolerance of measurements of Radiant Power is ±15%

*3 Tolerance of measurements of forward voltage is ±0.1V

LAMP APPLICATION (PB FREE SOLDERJING)

Apply to LAMP (DIP) SERIES.

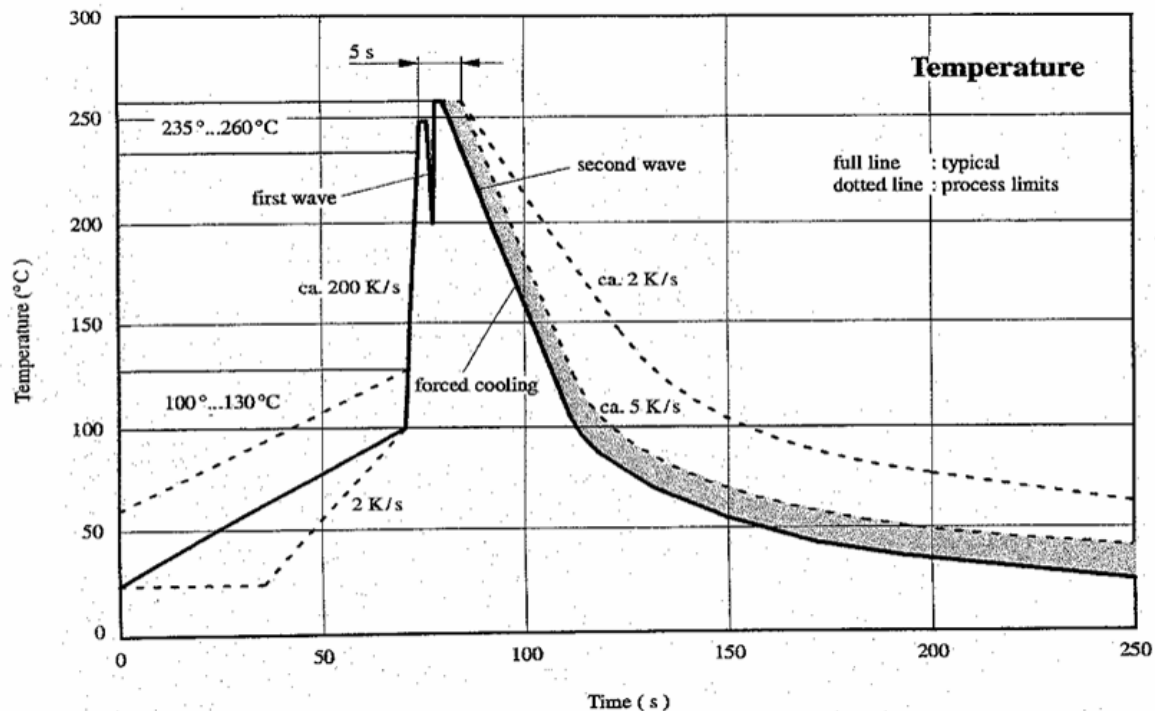
Description:

(1) Manual soldering (Solder Iron)

- (1.1) Temperature at tip of the iron: 350°C Max.
- (1.2) It's banned to load any stress on the resin during soldering.
- (1.3) Soldering time: 3sec.Max.(one time only.)
- (1.4) Leave 3mm of minimum distance from the base of the epoxy.

(2) Dip Soldering (Wave Soldering-Solder Bath)

- (2.1) Leave 3mm of minimum distance from the base of the epoxy.
Soldering beyond the base of the tie bar (stand off) is recommended.
- (2.2) When soldering, do not put stress on the LEDs during heating.
- (2.3) Cutting the lead frames at high temperatures may cause LED failure.
- (2.4) Never take next process until the component is cooled down to room temperature after reflow.
- (2.5) After soldering, do not warp the circuit board.
- (2.6) The recommended dip soldering profile is the following.



Wave soldering of double wave optodevices

LED & Application Technologies

