3mm (T1) Package Discrete LED RED/GREEN, Bi-Color

B-C-LED-3MM-CC

- **Industry Standard 3mm (T1) Package**
- **RoHS Compliant**
- **White Diffused Lens**
- **Available in Flange (F) Style**
- **3-Lead Bi-Color LED**
- **Ideal for Status Indication and Display**

3mm T1 Package 3-Lead Bi-Color is ideal for those applications where multiple signals need to be displayed at the same location such as standby-on indication for server or computer peripherals. When needed, the 3rd color signal could be created by powering up both chips together for on-off-standy applications that require three distinct signals. It offers white diffused LED lens for uniform light output. The Flange LED is ideal for Panel Mount Clip & Ring assemblies. This 3-Lead Bi-color LED package comes in a common cathode Lead Frame configuration.

Part Number	Material	Emitted Color	Peak. Wavelength λp(nm) TYP.	Lens Appearance	Viewing Angle
B-C-LED-3MM-CC	GaAsP/GaP	RED	625nm	White Diffused	40°
	GaP/GaP	GREEN	568nm		

ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

RoHS Compliant

Moisture Sensitivity Levels 1

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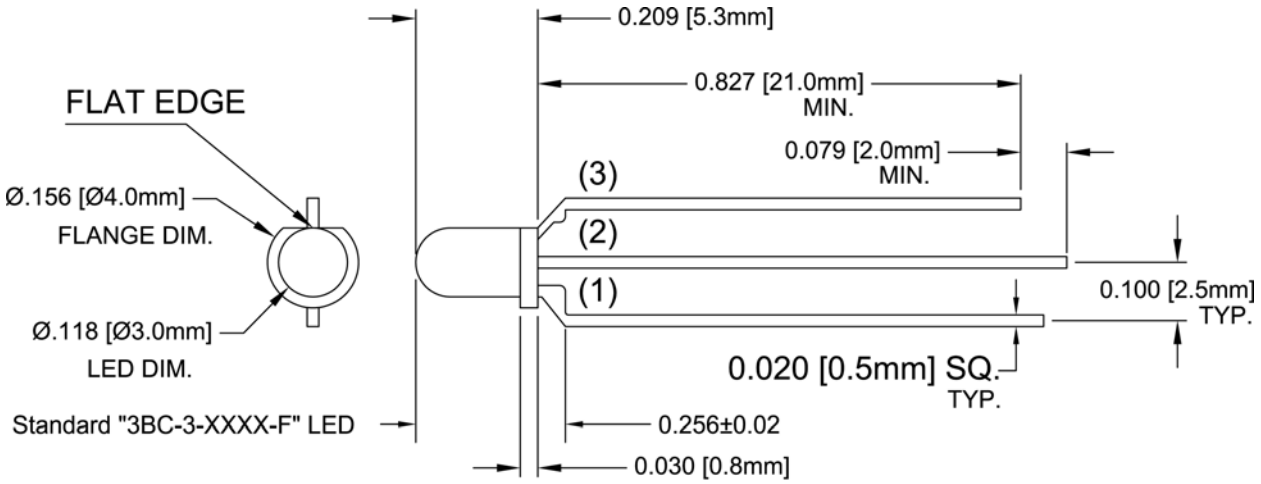
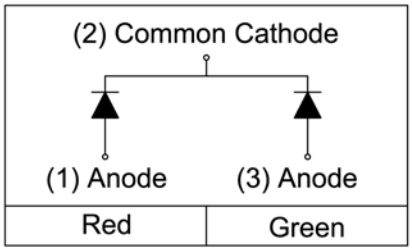
Outline Dimensions



Recommended Mounting Hole Size = $Ø.032^{+.003}_{-.002}$



Outline Drawings Notes:
1. All dimensions are in inches [millimeters].
2. Standard tolerance: ±0.010" unless otherwise noted.
3. Tolerance of overall epoxy outline: ±0.020" unless otherwise noted.
4. Epoxy meniscus may extend to 0.060" max.

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Absolute Maximum Ratings

T_A = 25°C unless otherwise noted

Power Dissipation	80 mW
Forward Current (DC)	30 mA
Peak Forward Current [1]	150 mA
Operating Temperature Range	-25 ~ +85°C
Storage Temperature Range	-30 ~ +100°C
Lead Soldering Temperature (3 mm from the base of the epoxy bulb) [2]	260°C

Notes: 1. 10% Duty Cycle, Pulse Width ≤ 0.1 msec. 2. Solder time less than 5 seconds at temperature extreme.

Electrical / Optical Characteristics

T_A = 25°C & I_F = 20 mA unless otherwise noted

Part Number	Emitted Color	Forward Voltage (V)[1]			Recommend Forward Current (mA)			Reverse Current (μA)	Dominant Wavelength (nm)[2]			Luminous Intensity Iv (mcd)			Viewing Angle 2 Θ ½ (deg)
		MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
3BC-3-F	Red	/	2.0	2.8	/	20	/	100	/	/	/	/	30	/	40
	Green	/	2.1	2.8					/	/	/	/	30	/	

Notes: 1. Tolerance of forward voltage : ±0.05V. 2. Tolerance of dominant wavelength : ±1.0nm.

3mm (T1) Package Discrete LED RED/GREEN, Bi-Color

Typical Electrical / Optical Characteristics - Red

T_A = 25°C unless otherwise noted

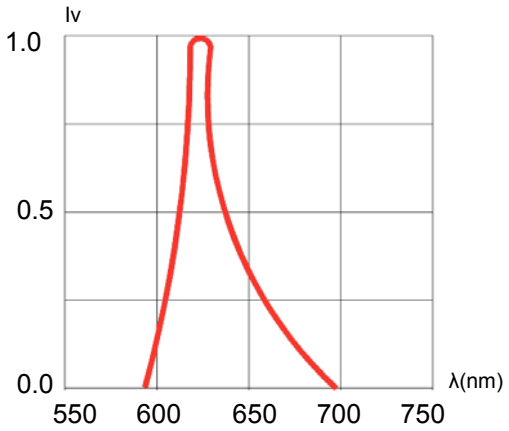

Fig. 1 Relative Luminous Intensity vs. Wavelength @ 20mA

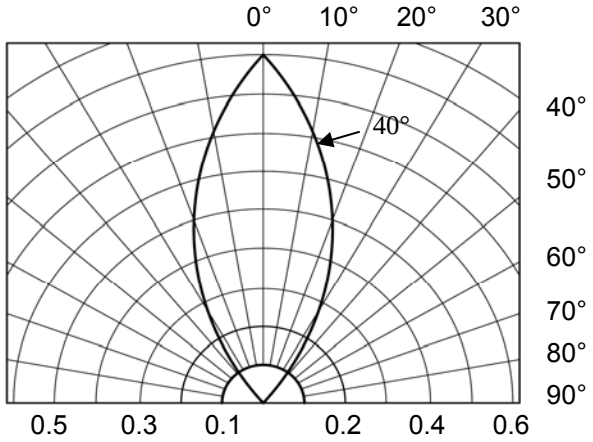

Fig. 2 Directivity Radiation Diagram

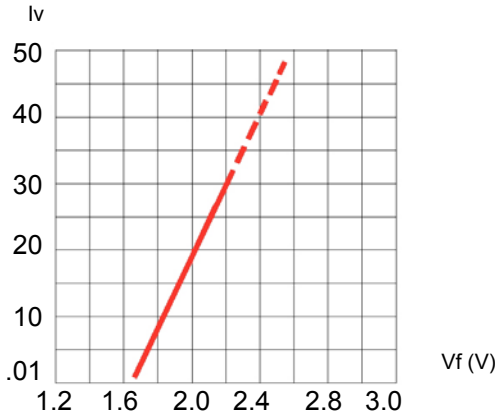

Fig. 3 Relative Intensity (10mA) vs. Forward Voltage

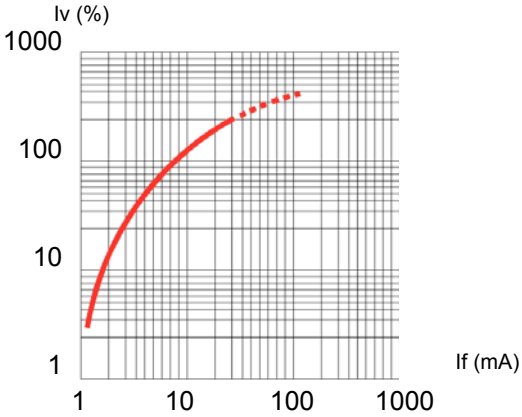

Fig. 4 Relative Luminous Intensity (%) vs. Forward Current

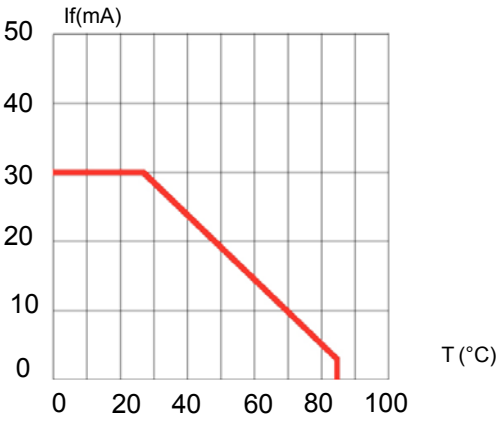

Fig. 5 Forward Current vs. Temperature

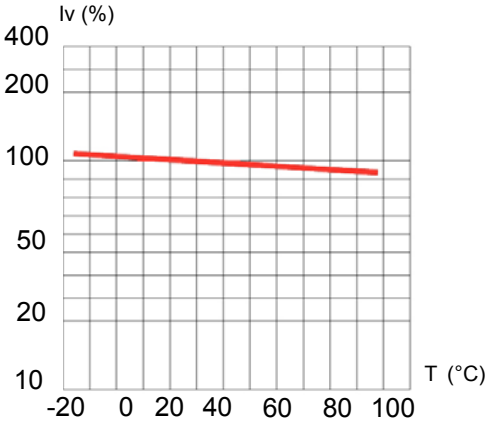

Fig. 6 Relative Intensity (%) vs. Temperature @ 20 mA

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Typical Electrical / Optical Characteristics - Green

T_A = 25°C unless otherwise noted

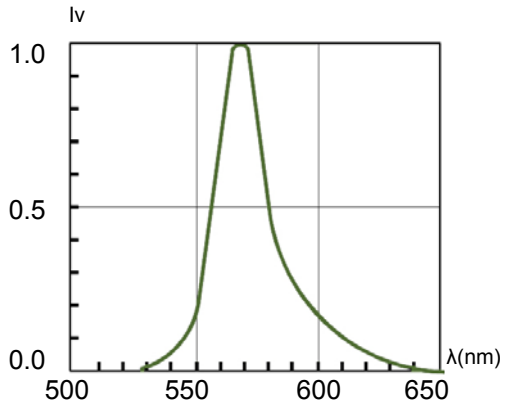

Fig. 1 Relative Luminous Intensity vs. Wavelength @ 20mA

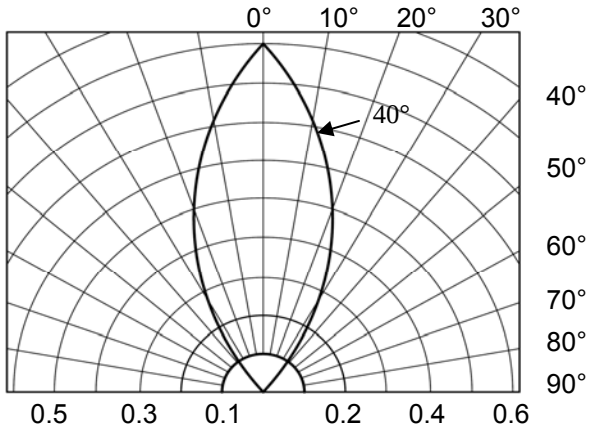

Fig. 2 Directivity Radiation Diagram

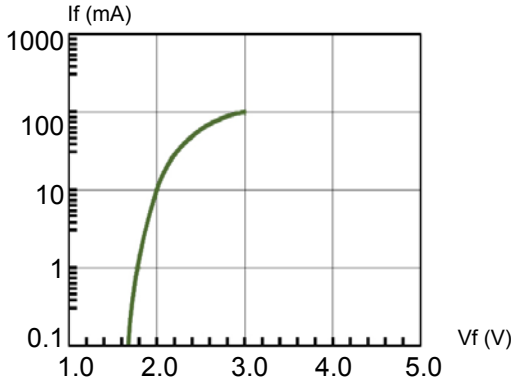

Fig. 3 Forward Current vs. Forward Voltage

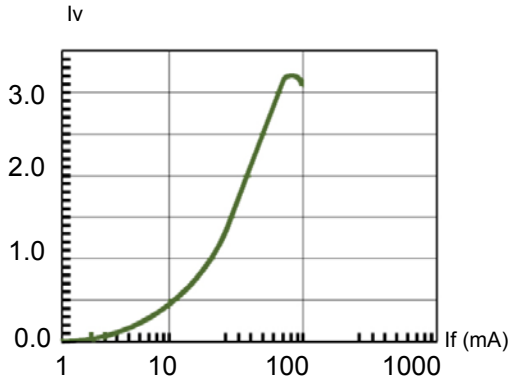

Fig. 4 Relative Luminous Intensity vs. Forward Current Normalize @ 20 mA

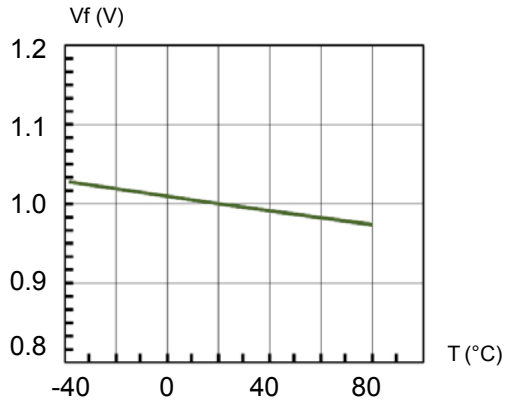

Fig. 5 Forward Voltage vs. Temperature

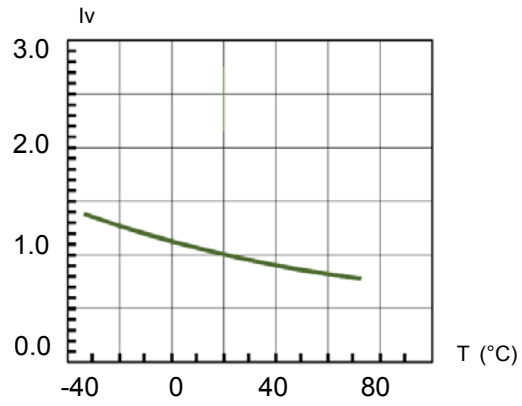

Fig. 6 Relative Luminous Intensity vs. Temperature

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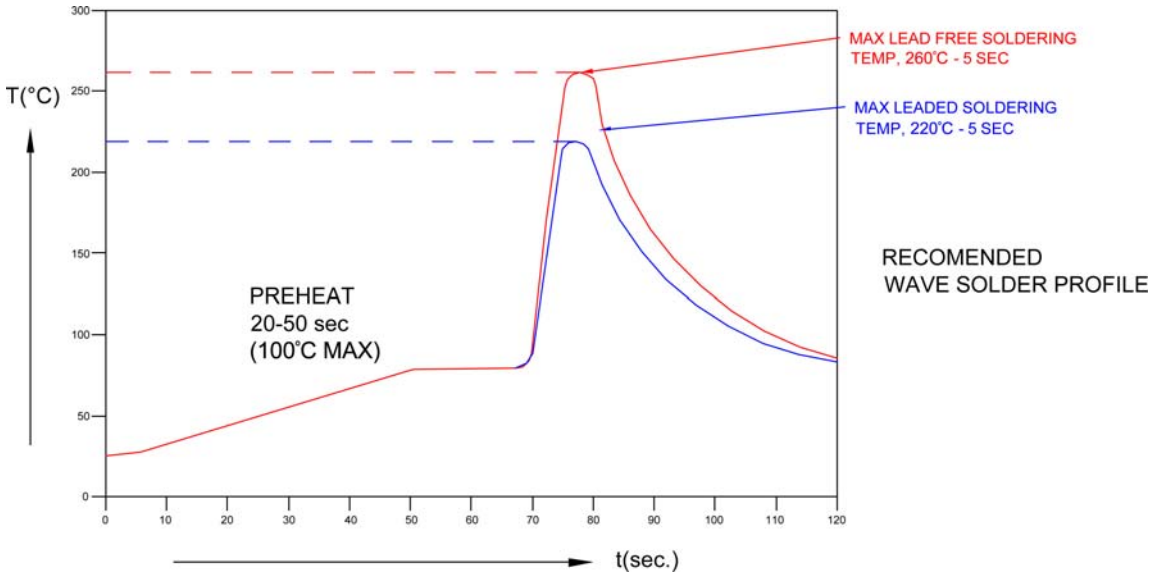
Recommended Soldering Conditions



Recommended Lead Free Wave Soldering Profile	
Preheat Temperature: 100ºC Max.	Peak Temperature: 260ºC Max.
Preheat Time: 20 ~ 50 Seconds	Solder Time Above 217ºC: 5 Seconds Max.
Note: Turn off top heater at preheat to prevent the lamp body directly exposed to the heat source.	