

TO-1608BC-MAE

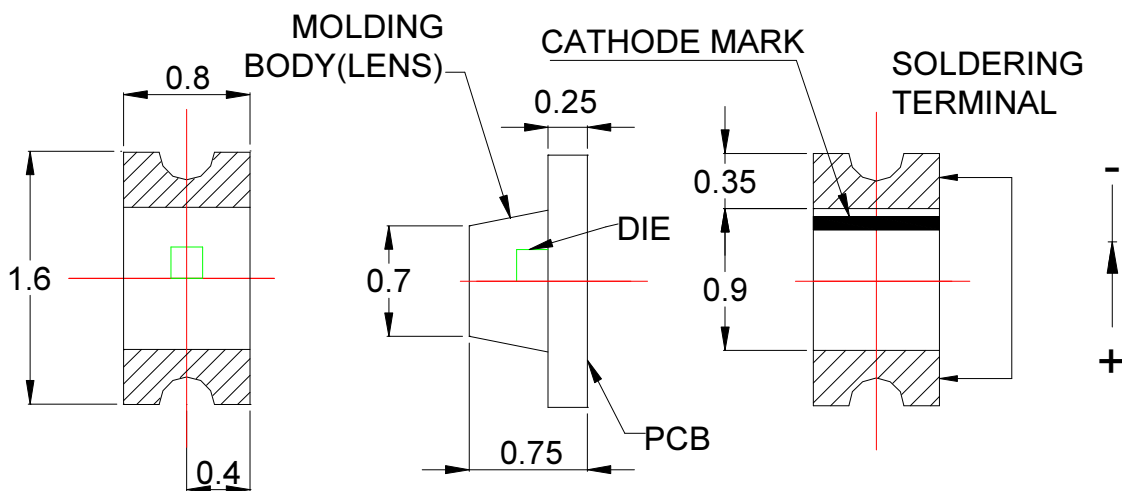
Surface Mount Device LED

Part Number	Chip		Lens Color
	Material	Source Color	
TO-1608BC-MAE	InGaN	High Bright Amber	Water Clear

Features

- IC compatible
- Compatible with automatic placement equipment
- Compatible with infrared and vapor phase reflow soldering process
- Top view type
- Pack in 8 mm tape on 7" diameter reel
- RoHS compliant
- Moisture sensitivity Level: level 3

Dimensions



Notes:

1. All dimensions are in millimeter.
2. Tolerance is ± 0.1 mm unless individual mark noted.

Absolute Maximum Rating @ Ta=25°C

Parameter	Maximum Rating	Unit
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	80	mA
Power Dissipation	75	mW
Continuous Forward Current	105	mA
Reverse Voltage	5	V
Operating Temperature Range	-40°C to +80°C	
Storage Temperature Range	-40°C to +100°C	
IR Reflow Soldering Profile For Lead Free Soldering	260°C for 10 sec	

Electrical / Optical Characteristic @ Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_v	86		190	mcd	$I_F=20\text{mA}$
Viewing Angle	$2\theta_{1/2}$		130		deg	$I_F=20\text{mA}$
Forward Voltage	V_F		3.2		V	$I_F=20\text{mA}$
Dominant Wavelength	λ_d		605		nm	$I_F=20\text{mA}$
Spectral Line Half-Width	$\Delta\lambda$		17		nm	$I_F=20\text{mA}$
Reverse Current	I_R			10	μA	$V_R=5\text{V}$

Bin Code List for Reference

Luminous Intensity		Unit : mcd@20mA
Bin Code	Min	Max
E3	86	112
E4	112	146
F1	146	190

Tolerance of Luminous Intensity on each bin is $\pm 11\%$

Dominant Wavelength		Unit : nm@20mA
Bin Code	Min	Max
600603	600	603
603606	603	606
606069	606	609
609612	609	612

Tolerance of Dominant Wavelength on each bin is $\pm 1\text{nm}$