

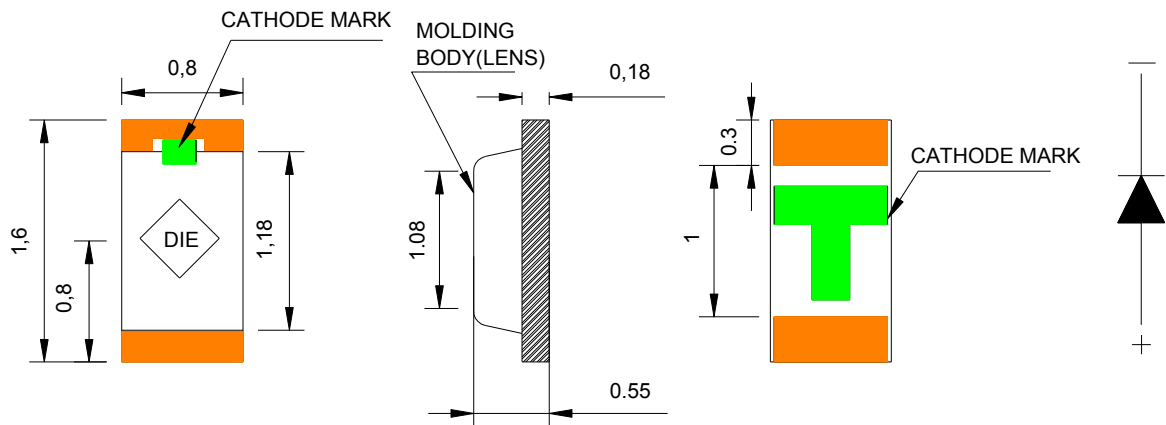


TO-B0603BC-MAE Surface Mount Device LED

Features

- IC compatible.
- Compatible with automatic placement equipment.
- Compatible with infrared and vapor phase Reflow solder process.
- Top View TYPE.
- Package in 8mm tape on 7" diameter reel.
- Lead-Free Package (According to RoHS).

Package Dimensions



Note:

1. All dimensions are in millimeters.
2. Tolerance is ± 0.1 mm unless otherwise noted.



Absolute Maximum Ratings at $T_A=25^\circ\text{C}$

Parameter	Maximum Rating	Unit
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	80	mA
Power Dissipation	75	mW
Continuous Forward Current	25	mA
Reverse Voltage	5	V
Operating Temperature Range	-55°C to +85°C	
Storage Temperature Range	-55°C to +105°C	
IR Reflow Soldering Profile For Lead Free Soldering	260°C	

Electrical / Optical Characteristics at $T_A=25^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I _v	51		146	mcd	I _F =20mA
Viewing Angle	2θ _{1/2}		130		deg	I _F =20mA
Dominant Wavelength	λ _d		605		nm	I _F =20mA
Spectral Line Half-Width	Δλ		18		nm	I _F =20mA
Forward Voltage	V _F		2.0	2.3	V	I _F =20mA
Reverse Current	I _R			10	μA	V _R =8V



BIN CODE LIST

Luminous Intensity		Unit: mcd@20mA	
Bin Code	Min	Max	
E1	51	66	
E2	66	86	
E3	86	112	
E4	112	146	

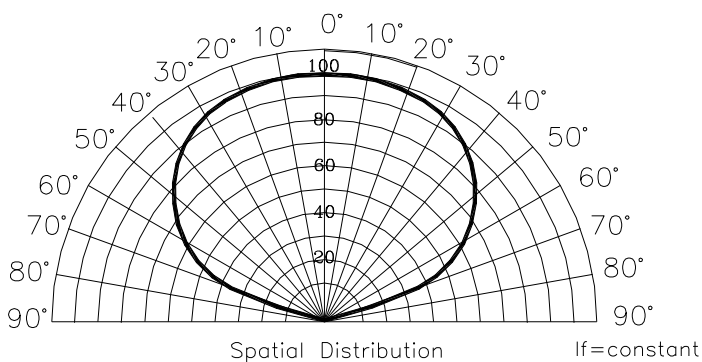
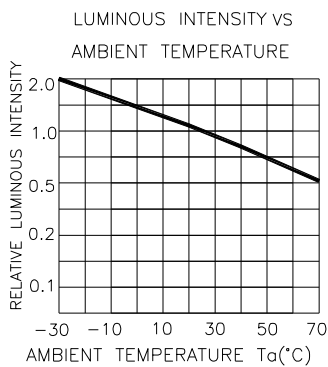
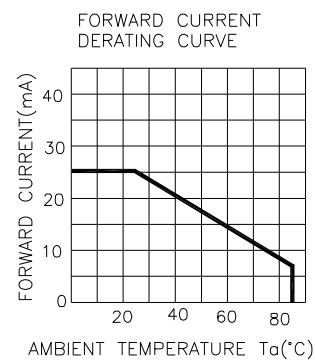
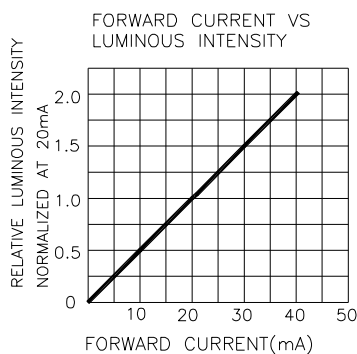
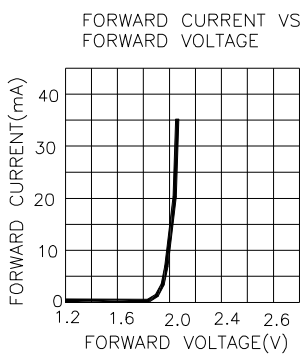
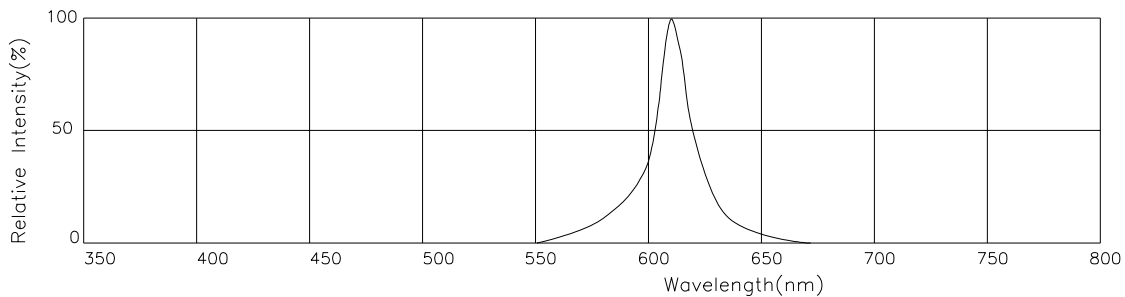
Tolerance on each Intensity Bin is $\pm 15\%$

Dominant Wavelength		Unit: nm@20mA	
Bin Code	Min	Max	
600603	600	603	
603606	603	606	
606609	606	609	

Tolerance for each Dominate Wavelength Bin is $\pm 1\text{nm}$



Typical Electrical / Optical Characteristics Curves



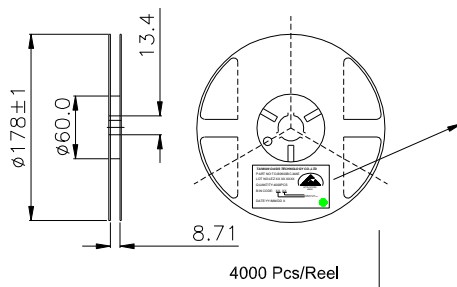
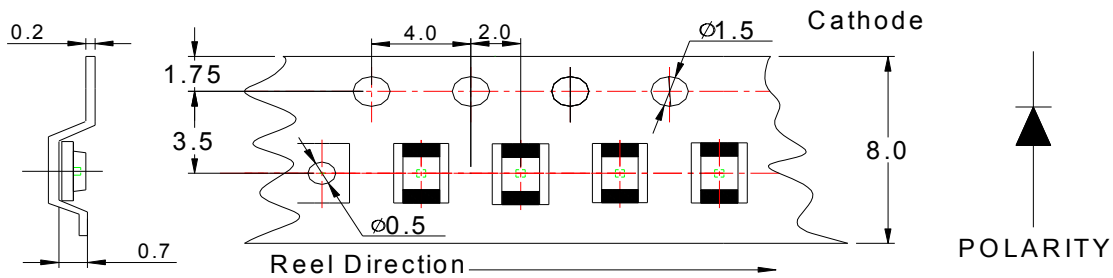


TAIWAN OASIS

Http://www.taiwanoasis.com.tw

Technical Data

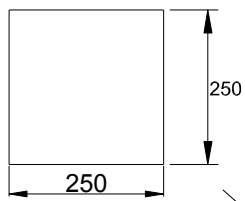
Package Dimensions of Tape and Reel (Units: mm)



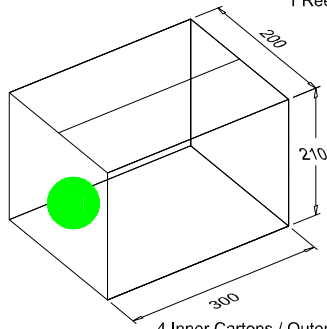
TAIWAN OASIS TECHNOLOGY CO.,LTD
 PART NO:TO-B0603BC-MAE
 LOT NO:LEZXX XX XXXX
 QUANTITY:4000PCS
 BIN CODE: XX XX
 DATE:YY/MM/DD X

ATTENTION: static
 Brightness Code
 Limiting Color Code

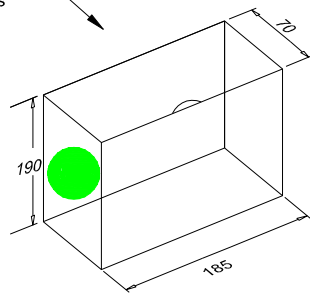
RoHS



1 Reel / Anti-Static Bags



4 Inner Cartons / Outer Carton



4 Bags / Inner Carton