

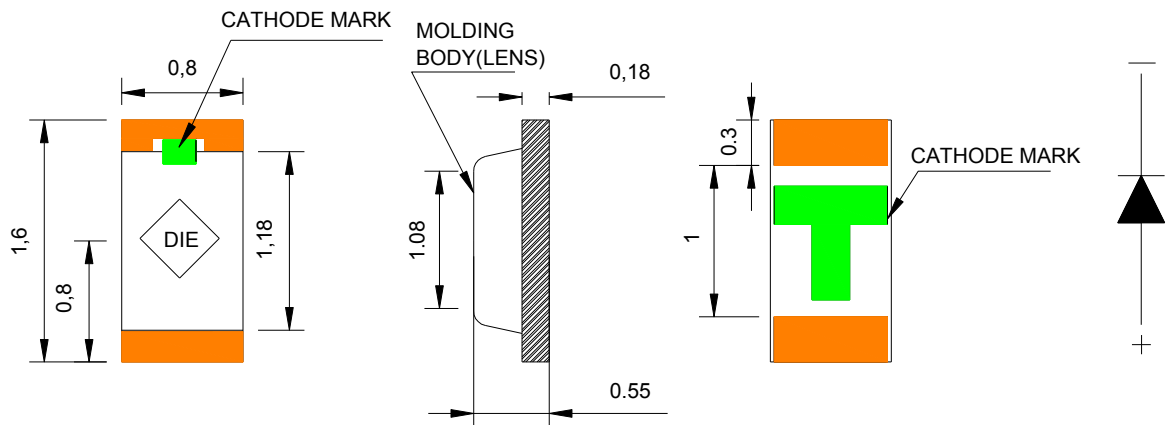


TO-B0603BC-EC **Surface Mount Device LED**

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	6.5		18.0	mcd	$I_F=20\text{mA}$
Viewing Angle	$2\theta_{1/2}$		130		deg	$I_F=20\text{mA}$
Dominant Wavelength	λ_d		621		nm	$I_F=20\text{mA}$
Spectral Line Half-Width	$\Delta\lambda$		35		nm	$I_F=20\text{mA}$
Forward Voltage	V_F		2.0	2.3	V	$I_F=20\text{mA}$
Reverse Current	I_R			10	μA	$V_R=8\text{V}$



BIN CODE LIST

Luminous Intensity		Unit: mcd@20mA	
Bin Code	Min	Max	
C1	6.5	8.0	
C2	8.0	10.5	
C3	10.5	14.0	
C4	14.0	18.0	

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

Dominant Wavelength		Unit: nm@20mA	
Bin Code	Min	Max	
618621	618	621	
621624	621	624	
624627	624	627	

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



Typical Electrical / Optical Characteristics Curves

