



TO-3228BC-BF-1

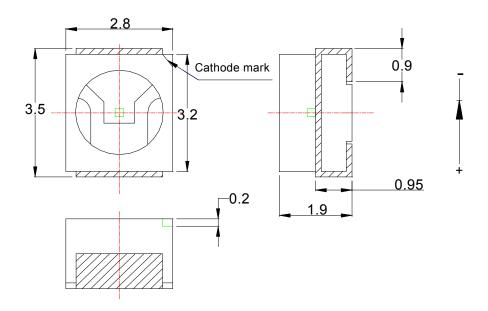
Surface Mount Device LED

Part Number	Chip		Lens Color
rait Number	Material	Source Color	Lens Color
TO-3228BC-BF-1	InGaN	Blue	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 ±0.1mm unless individual mark noted.

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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	105	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 Characteristic @ Ta=25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	lv	112		321	mcd	I _F =20mA
Viewing Angle	2θ _{1/2}		120		deg	I _F =20mA
Forward Voltage	V _F		3.2		V	I _F =20mA
Dominant Wavelength	$\lambda_{\sf d}$		468		nm	I _F =20mA
Spectral Line Half-Width	\triangle_{λ}		26		nm	I _F =20mA
Reverse Current	I _R			10	μΑ	V _R =5V

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Bin Code List for Reference

Luminous Intensity		Unit: mcd@20mA
Bin Code	Min	Max
F2	190	247
F3	247	321
F4	321	417

Tolerance of Luminous Intensity on each bin is ±15%

Dominant Wavelength		Unit: nm@20mA
Bin Code	Min	Max
464466	464	466
466468	466	468
468470	468	470
470472	470	472
472474	472	474

Tolerance of Dominant Wavelength on each bin is ±1nm

Forward Voltage		Unit: nm@20mA
Bin Code	Min	Max
V1	2.8	3.0
V2	3.0	3.2
V3	3.2	3.4
V4	3.4	3.6

Tolerance for each Forward Voltage Bin is $\pm 0.1V$

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