



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



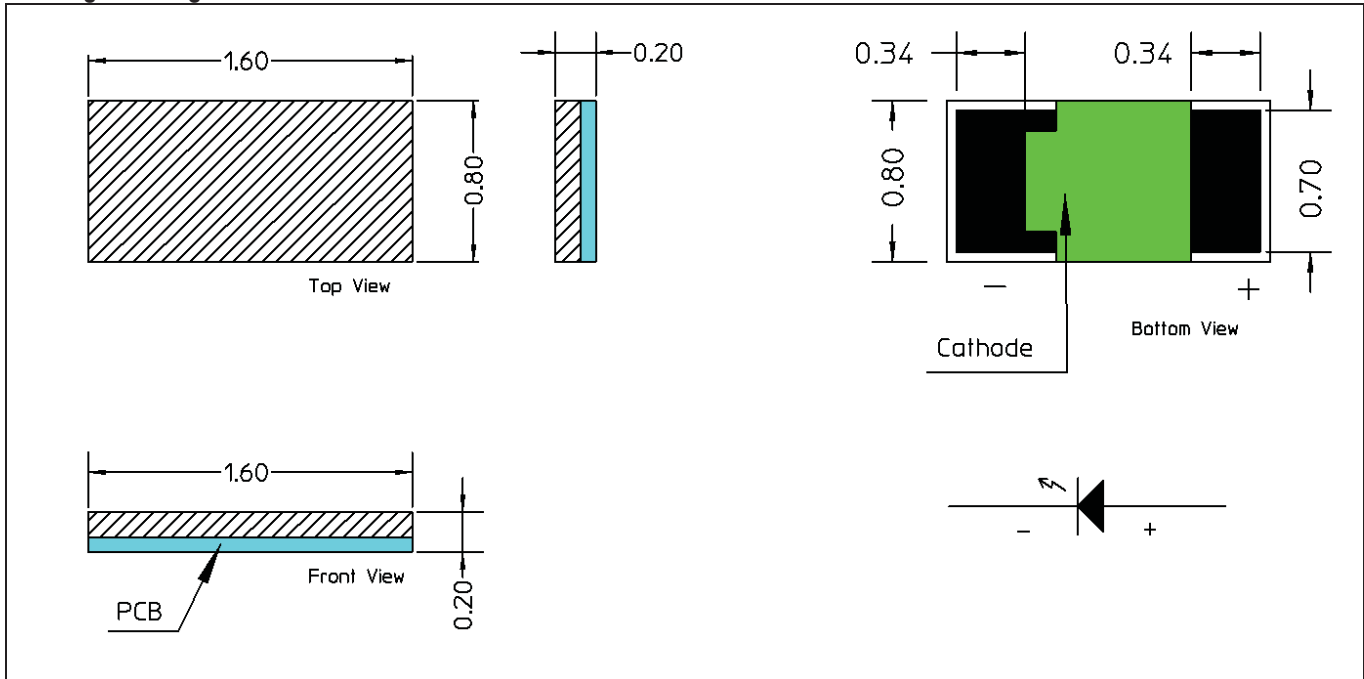
# ASMT-CB20

## SMT Top Fire ChipLED

### Data Sheet



#### Package Drawing



- All dimensions in millimeters.
- Tolerance is  $\pm 0.1$ mm unless otherwise specified.
- Electrode Ag plated.

#### Device Selection Guide

Part Number	Color	Chip
ASMT-CB20	Blue	InGaN

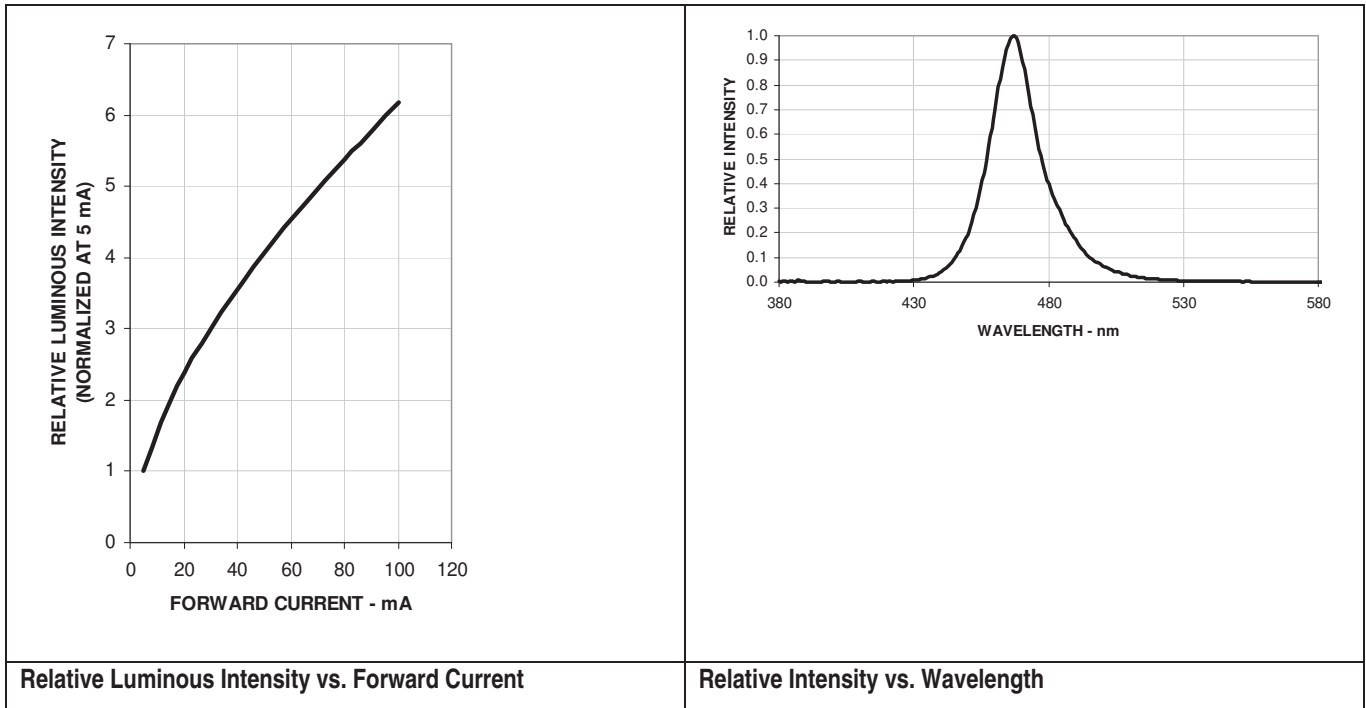
**CAUTION:** Class 1B static sensitive device per JESD22A114. Please observe appropriate precautions during handling and processing.

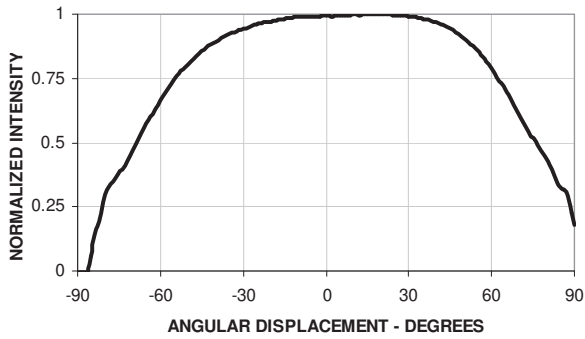
**Absolute Maximum Ratings at T<sub>A</sub> = 25°C**

Parameter	Rating	Unit
DC Forward Current	10	mA
Power Dissipation	32	mW
Operating Temperature	-40 to +85	°C
Storage Temperature	-40 to +85	°C
Moisture Sensitivity Level (IPC/JEDEC JSTD020)	2A	-

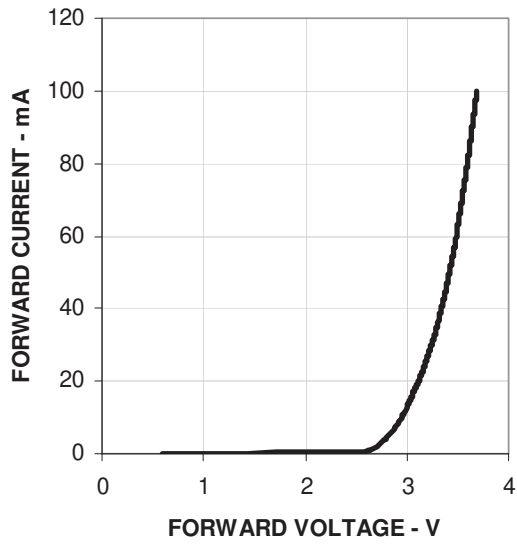
**Optical-Electrical Characteristics at T<sub>A</sub> = 25°C**

Parameter	Test condition	Rating			Unit
		Min	Typ	Max	
Luminous intensity (I <sub>v</sub> )	I <sub>F</sub> =5mA	11.2	25.0	71.5	mcd
Viewing Angle (2θ <sub>1/2</sub> )	I <sub>F</sub> =5mA		130		deg.
Peak wavelength (λ <sub>p</sub> )	I <sub>F</sub> =5mA		468		nm
Dominant wavelength (λ <sub>d</sub> )	I <sub>F</sub> =5mA	465		475	nm
Forward voltage (V <sub>F</sub> )	I <sub>F</sub> =5mA	2.55		3.15	V

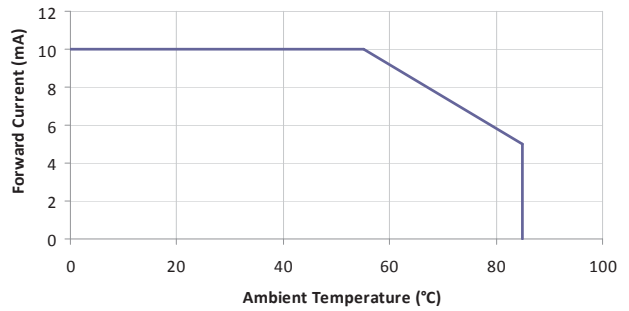




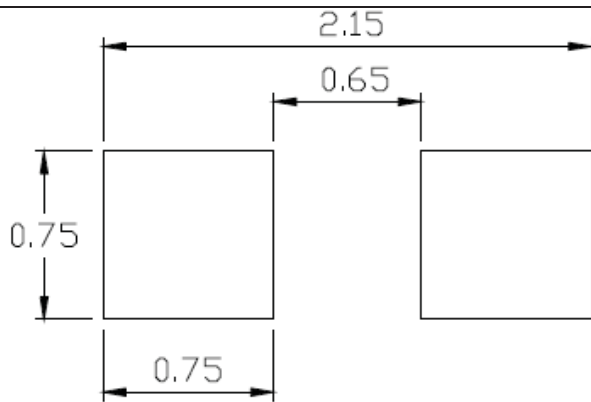
Radiation Pattern



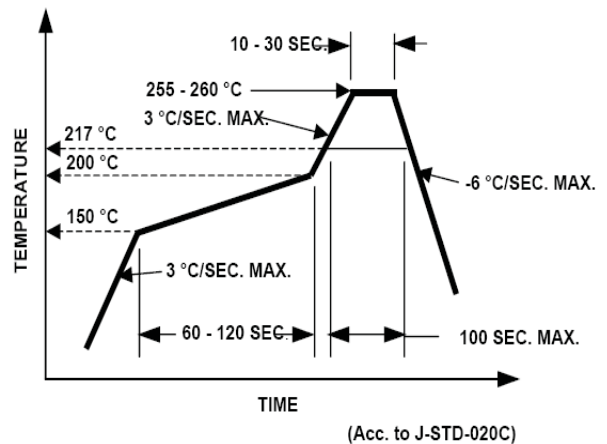
Forward Current vs. Forward Voltage



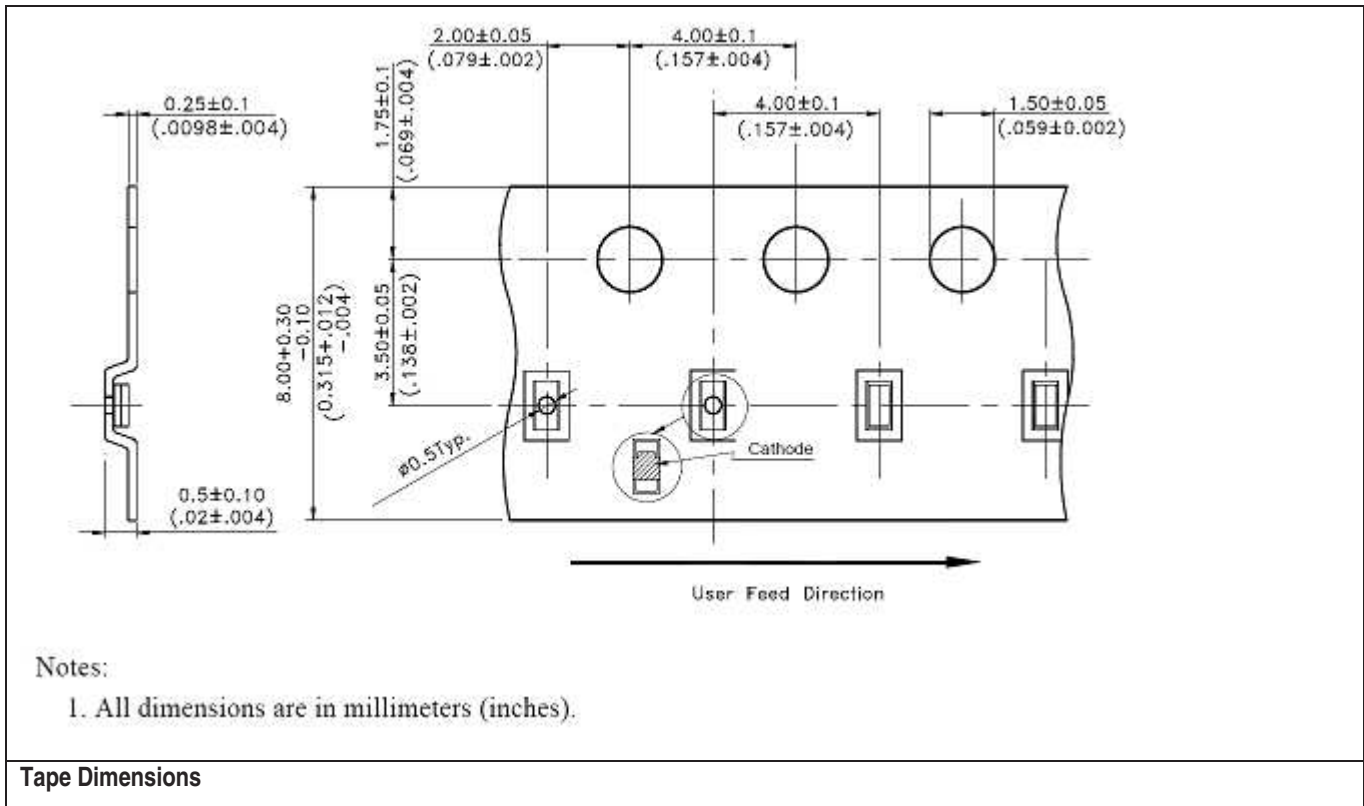
Forward Current vs. Ambient Temperature



Recommended Soldering Land Pattern



Recommended Pb-Free Reflow Soldering Profile



**Tape Dimensions**

**Luminous Intensity Bin**

Bin	Min (mcd)	Max (mcd)
L	11.2	18.0
M	18.0	28.5
N	28.5	45.0
P	45.0	71.5

Tolerance ± 15%

**Color Bin**

Bin	Min (nm)	Max (nm)
B	465	470
C	470	475

Tolerance ± 1nm

**Forward Voltage Bin**

Bin	Min (V)	Max (V)
1	2.55	2.75
2	2.75	2.95
3	2.95	3.15

Tolerance ± 0.1V