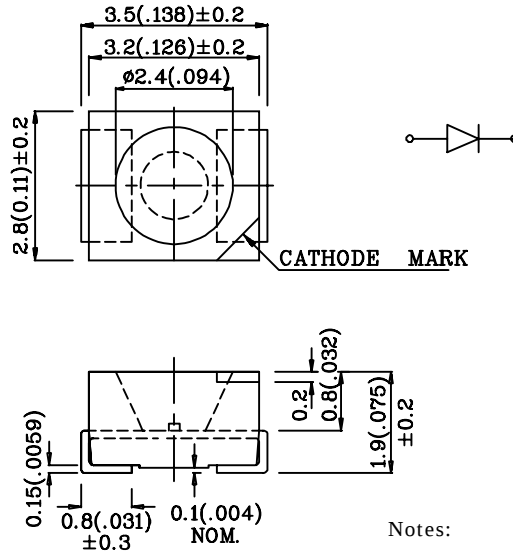


3.5x2.8mm SMD CHIP LED LAMP

ZBG45W



SUN LED



Notes:

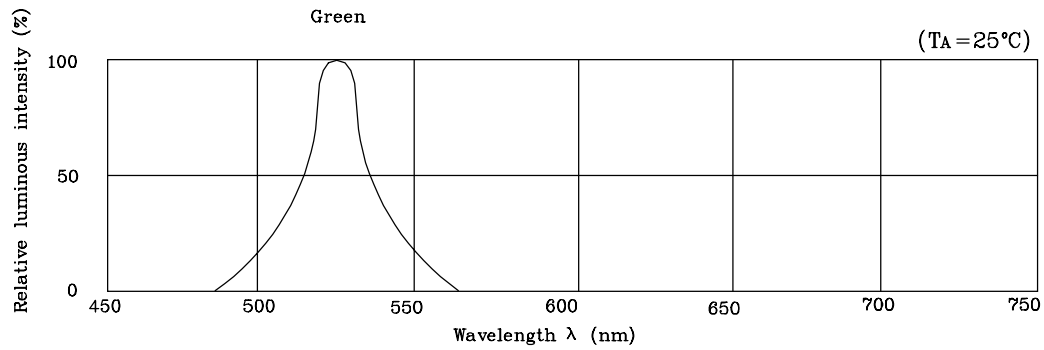
1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.1(0.004)$ unless otherwise noted.

Absolute maximum ratings ($T_A=25^\circ\text{C}$)		BG (InGaN)	Unit
Reverse voltage	V_R	5	V
Forward current	I_F	30	mA
Forward current (peak) 1/10Duty cycle 0.1ms pulse width	i_{FS}	100	mA
Power dissipation	P_T	135	mW
Operation temperature	T_A	-20 ~ +80	$^\circ\text{C}$
Storage temperature	T_{stg}	-30 ~ +85	

Operating Characteristics ($T_A=25^\circ\text{C}$)		BG (InGaN)	Unit
Forward voltage (typ.) ($I_F=20\text{mA}$)	V_F	3.5	V
Forward voltage (max.) ($I_F=20\text{mA}$)	V_F	4.0	V
Reverse current ($V_R=5\text{V}$)	I_R	10	μA
Wavelength at peak emission ($I_F=20\text{mA}$)	λ_{peak}	525	nm
Spectral Line half-width ($I_F=20\text{mA}$)	$\Delta\lambda$	36	nm
Capacitance ($V_F=0$, $f=1\text{MHz}$)	C	90	pF

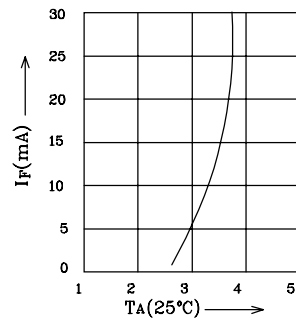
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity ($I_F=20\text{mA}$) mcd		Wavelength nm	Viewing Angle
				min.	max.		
ZBG45W	green	InGaN	water clear	120	300	525	120°

ZBG45W

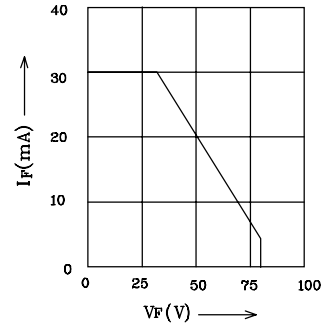


◆BG

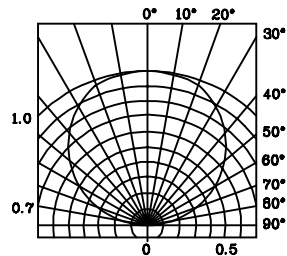
Forward current derating curve



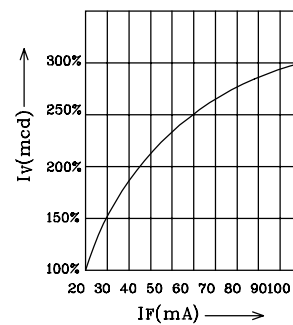
Forward current Vs. Forward voltage



Radiation Characteristics

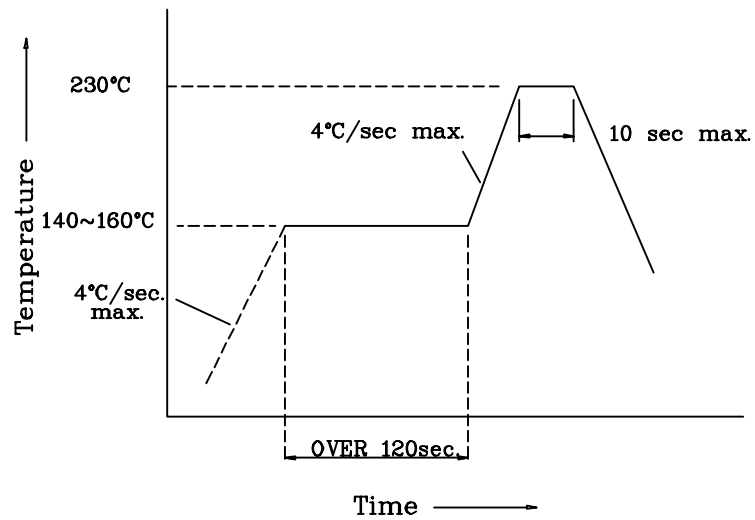


Luminous Intensity Vs. Forward Current

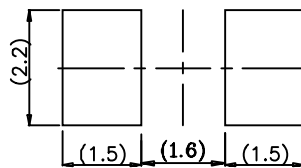


ZBG45W

❖ SMT Reflow Soldering Instructions



❖ Recommended Soldering Pattern (Units : mm)



ZBG45W
❖Tape Specification (Units : mm)

