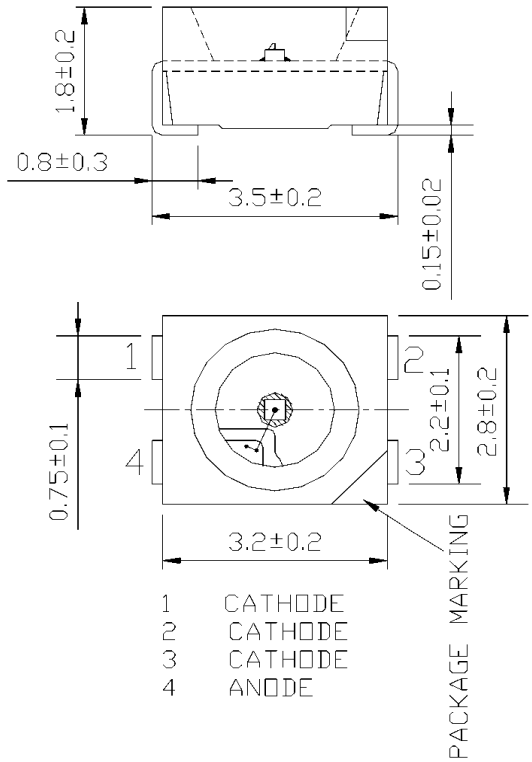
COTCO

InGaN Blue Power SMT LED

LM1−PBL1−11



Applications

Indicators
Illuminations
LCD Back lights
Automobile Applications
RGB Full color displays

Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Unit
Forward Current	I_F	30	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	140.00	mW
Operating Temperature	T_{opr}	−40 ~ +100	°C
Storage Temperature	T_{stg}	−40 ~ +100	°C
Soldering Temperature	T_{sol}	260	°C
Soldering Time	−	for 3 sec. max	−

Opto−Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V_F	I_F=30mA	−	3.90	4.60	V
Reverse Current	I_R	V_R=5V	−	−	10	μ A
Luminous Intensity	I_V	I_F=30mA	140.00	200.00	−	mcd
Viewing Angle	$2\theta^{1/2}$	−	−	120°	−	deg.
Peak Wavelength	λp	I_F=30mA	−	465	−	nm
Dominant Wavelength	λd	I_F=30mA	−	470	−	nm
Spectral Line Half Width	Δλ	I_F=30mA	−	28	−	nm

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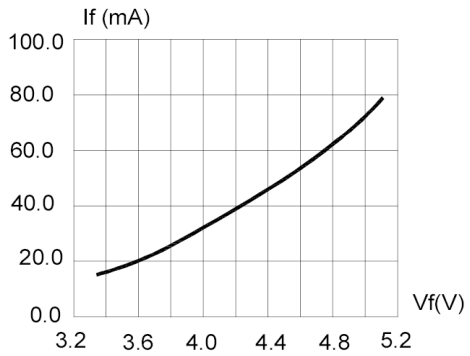


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

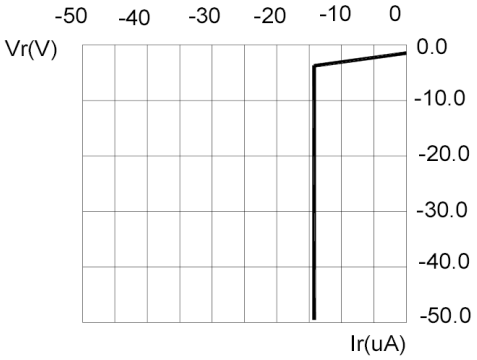
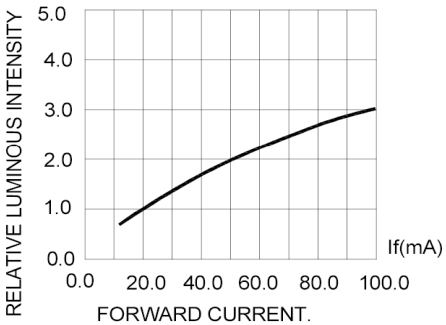


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.



FORWARD CURRENT.

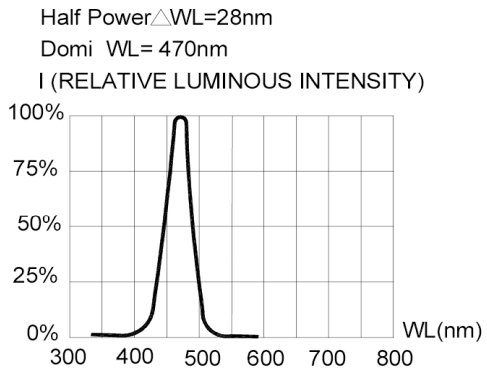


FIG.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

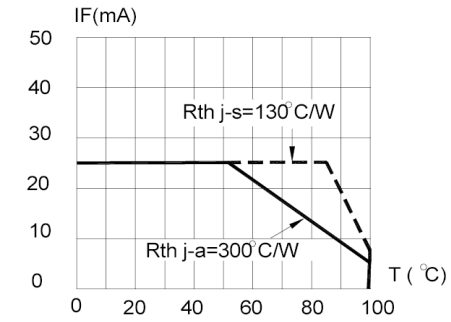


FIG.5 MAXIMUM FORWARD DC CURRENT VS TEMPERATURE. DERATING BASED ON Tjmax=110°C

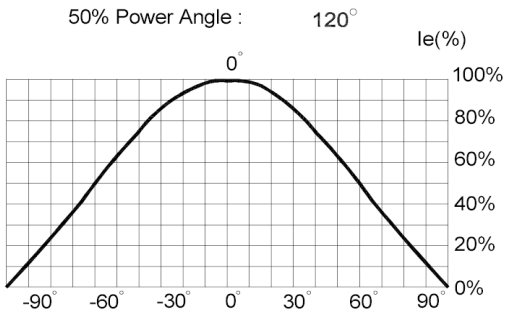


FIG.6 SPATIAL DISTRIBUTION.

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