Crest Technologies Pty Ltd
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Tel: (03) 9873 8830 Fax: (03) 9873 8799
Email: sales@cresttech.com.au
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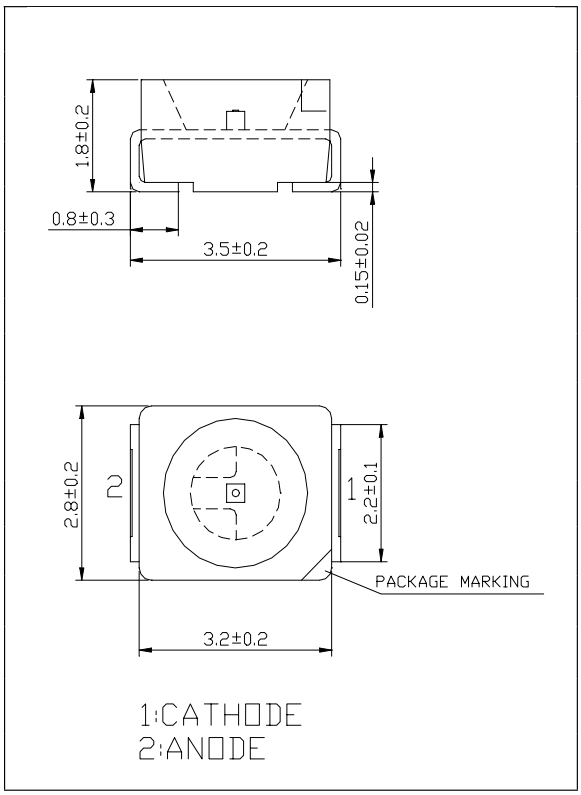
Model: **L-TPG1 -C01**
120 Degree 3.2 x 2.8mm SMT-LED in Pure Green Color with Water Transparent

Dice Material:
InGaN

Applications:

- Indicators
- Illuminations
- LCD Back Lights
- Automobile's Applications
- RGB Full Color Displays

Dimension Drawing



Absolute Maximum Ratings at Ta = 25°C

Items	Symbol	Absolute maximum Rating	Unit
Forward Current	I_F	25	mA
Peak Forward Current*	I_{FP}	100	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	105	mW
Operation Temperature	T_{opr}	-40 ~ + 100	°C
Storage Temperature	T_{stg}	-40 ~ + 100	°C
Junction temperature	Tj	+110	°C
Junction/ambient **	$R_{th\ JA}$	450	°C/W
Junction/solder point	$R_{th\ JS}$	300	°C/W

*pulse width <=0.1msec duty <=1/10 ** Rth test condition: Mounted on PC Board FR 4(pad size>=16mm^2)

Typical Electrical & Optical Characteristics (Ta = 25°C)

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	I_F = 20mA	---	3.6	4.2	V
Reverse Current	I_R	V_R = 5V	---	---	10	μA
Luminous Intensity	I_V	I_F = 20mA	355	560	---	mcd
Dominant Wavelength	λ_D	I_F = 20mA	520	525	540	nm
50% Power Angle	2 $\theta_{1/2}$	I_F = 20mA	---	120	---	deg

Ranks Combination (I_F = 20mA)

Rank	T2	U1	U2	V1
Luminous Intensity	355-450 mcd	450-560 mcd	560-710 mcd	710-900 mcd

Important Notes:

1) Tolerance of measurement of luminous intensity is ±10%
2) Tolerance of measurement of dominant wavelength is ±1nm
3) Tolerance of measurement of Vf is ±0.05 V.

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Graphs

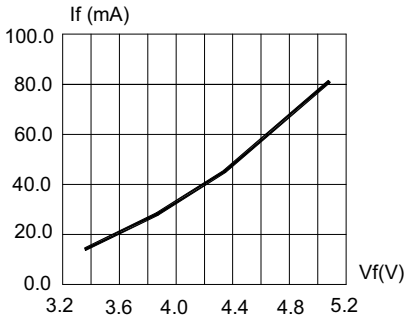

FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

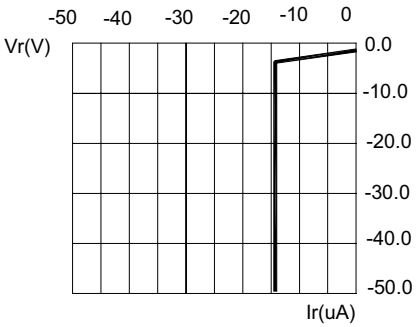

FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

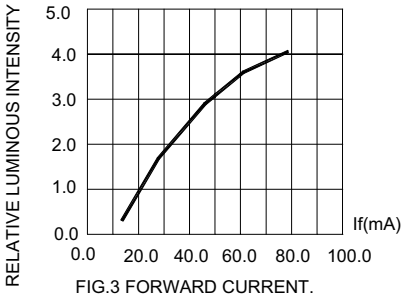

FIG.3 FORWARD CURRENT.

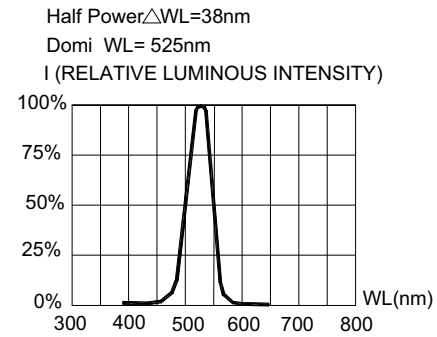

FIG.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

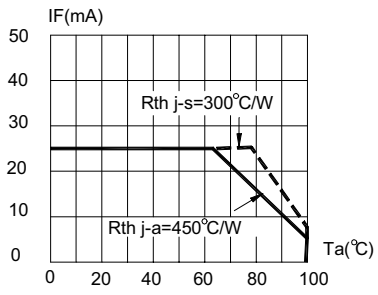

FIG.5 MAXIMUM FORWARD DC CURRENT VS TEMPERATURE. DERATING BASED ON Tjmax=110℃

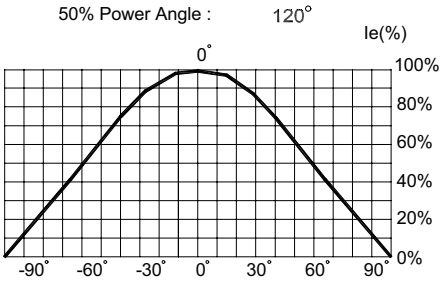

FIG.6 SPATIAL DISTRIBUTION.