Crest Technologies Pty Ltd
46/41-49 Norcal Rd Nunawading 3131 Australia
Tel: (03) 9873 8830 Fax: (03) 9873 8799
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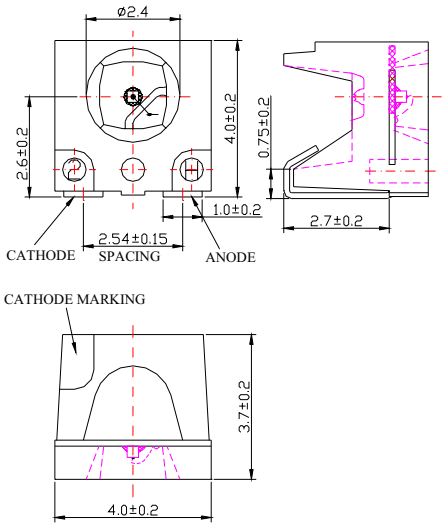
Model: **L-TSSR-C01**
120 Degree 4.0x 4.0mm Side SMD in High Red Color with Water Transparent

Dice Material:
AlGaInP

Applications:

- Optical indicators
- Coupling into light guides
- Back lights(LCD, switches, keys, displays, illuminated advertising,general lighting)
- Interior automotive lighting.(e.g.dashboard backlighting, etc.)
- Automobile's Applications
- Marker lights (e.g. steps, exit ways, etc)
- Signal and symbol luminaire

Dimension Drawing



Dimensions are specified as follows: mm.

Absolute Maximum Ratings at Ta = 25°C

Items	Symbo	Absolute maximum Rating	Unit
Forward Current	I_F	50	mA
Peak Forward Current*	I_{FP}	200	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	150	mW
Operation Temperature	T_{opr}	-40 ~ + 100	°C
Storage Temperature	T_{stg}	-40 ~ + 100	°C
Junction temperature	Tj	+110	°C
Junction/ambient **	$R_{th\ JA}$	350	°C /W
Junction/solder point	$R_{th\ JS}$	250	°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	---	2.1	2.6	V
Reverse Current	I_R	V_R = 5V	---	---	10	μA
Luminous Intensity	I_V	I_F = 20mA	280	400	---	mcd
Dominant Wavelength	λ_D	I_F = 20mA	620	628	635	nm
50% Power Angle	2 $\theta_{1/2}$	I_F = 20mA	---	120	---	deg

Ranks Combination (I_F = 20mA)

Rank	T1	T2	U1
Luminous Intensity	280-355 mcd	355-450 mcd	450-560 mcd

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Graphs

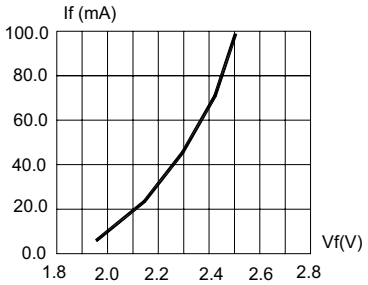

FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

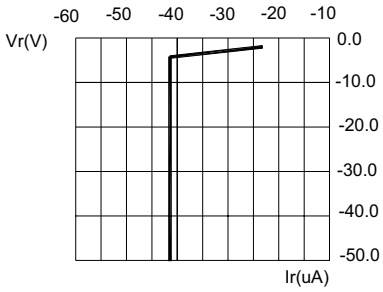

FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

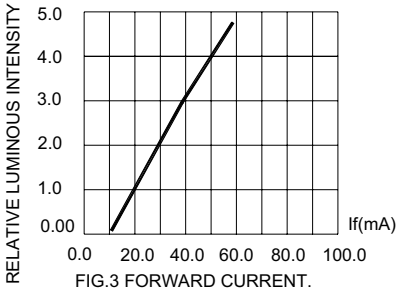

FIG.3 FORWARD CURRENT.

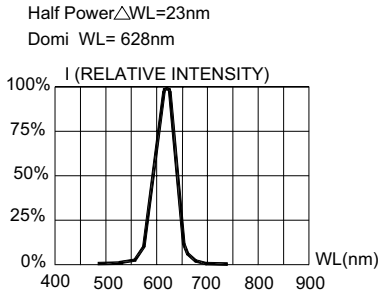

FIG.4 RELATIVE INTENSITY VS. WAVE LENGTH.

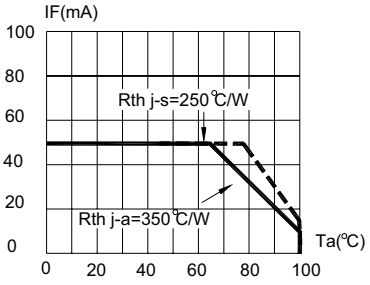

FIG.5 MAXIMUM FORWARD DC CURRENT VS TEMPERATURE. DERATING BASED ON Tjmax=110℃

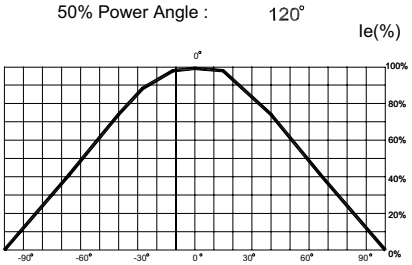

FIG.6 SPATIAL DISTRIBUTION.