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Model: L-T2SY -CF1

60 Degree 3.2 x 2.8mm Power SMD With Lens in Amber Color with Water Transparent

Dice Material:

AlGaNp

Applications:

- Traffic Light
- Backlighting(LCD,Switches,Keys,Displays,Illuminated Advertising)
- Interior And Exterior Automotive Lighting(e.g. Dashboard Backlight And Brake Lights)
- Substitution Of Micro Incandescent Lamps
- Marker Lights(e.g. Steps,Exit Ways,Etc.)
- Signal And Symbol Luminaire

Absolute Maximum Ratings at Ta = 25°C

Items	Symbol	Absolute maximum Rating	Unit
Forward Current	I _F	70	mA
Peak Forward Current*	I _{FP}	200	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	220	mW
Operation Temperature	T _{opr}	-40 ~ + 100	°C
Storage Temperature	T _{stg}	-40 ~ + 100	°C
Junction temperature	T _j	+110	°C
Junction/ambient **	R _{th JA}	300	°C /W
Junction/solder point	R _{th JS}	130	°C /W

*pulse width <=0.1msec duty <=1/10 ** Rth test condition: Mounted on PC Board FR 4(pad size>=16mm²)

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

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F =50mA	---	2.3	3.2	V
Reverse Current	I _R	V _R = 5V	---	---	10	µA
Luminous Flux	Φ _V	I _F = 50mA	---	2500	---	mlm
Luminous Intensity	I _V	I _F =50mA	1400	2100	---	mcd
Dominant Wavelength	λ _D	I _F =50mA	584	591	596	nm
50% Power Angle	2 θ½	I _F = 50mA	---	60	---	deg

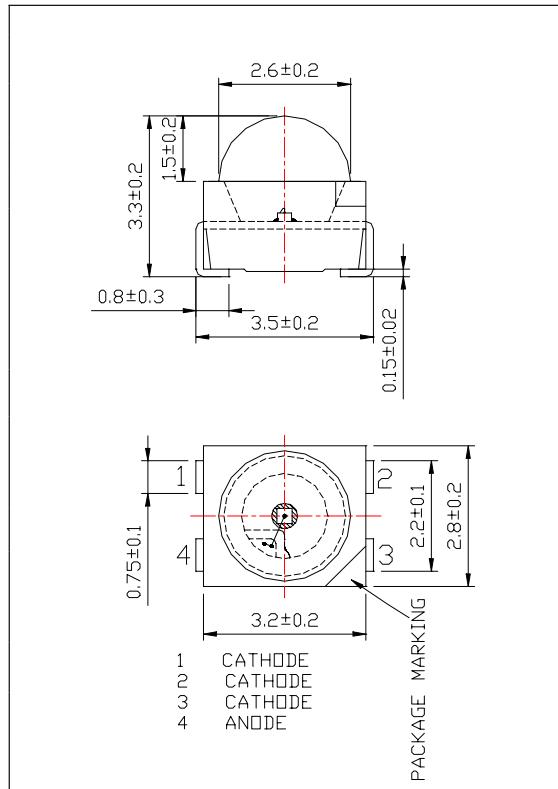
Ranks Combination (I_F =50mA)

Rank	W2	X1	X2	Y1
Luminous Intensity(mcd)	1400-1800	1800-2240	2240-2800	2800-3550

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.

Dimension Drawing



Graphs

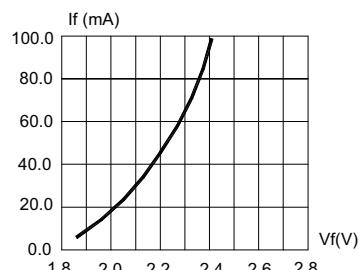


FIG.1 FORWARD CURRENT VS.
FORWARD VOLTAGE.

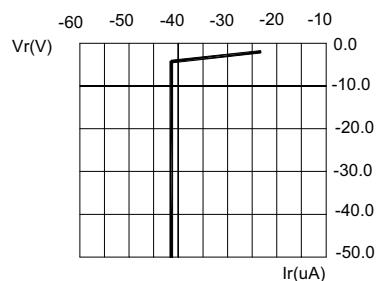


FIG.2 REVERSE CURRENT VS.
REVERSE VOLTAGE.

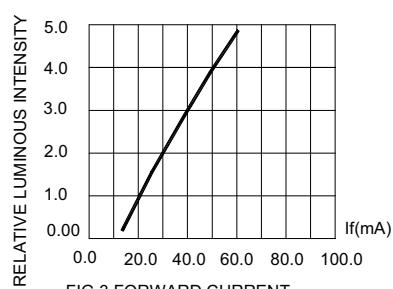


FIG.3 FORWARD CURRENT.

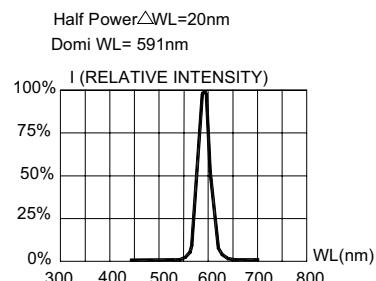


FIG.4 RELATIVE INTENSITY VS.
WAVE LENGTH.

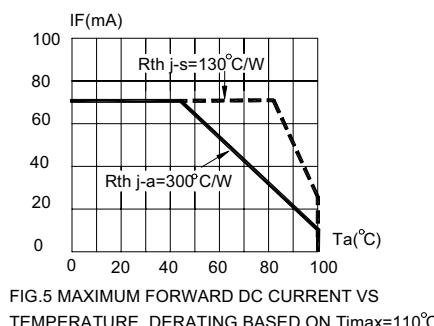


FIG.5 MAXIMUM FORWARD DC CURRENT VS
TEMPERATURE. DERATING BASED ON $T_{jmax}=110^{\circ}\text{C}$

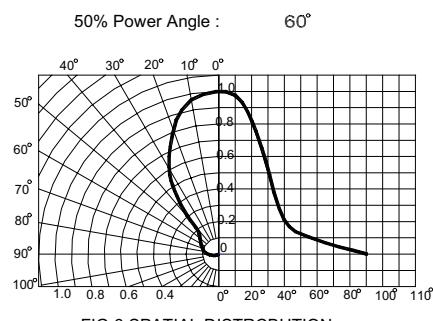


FIG.6 SPATIAL DISTRIBUTION.