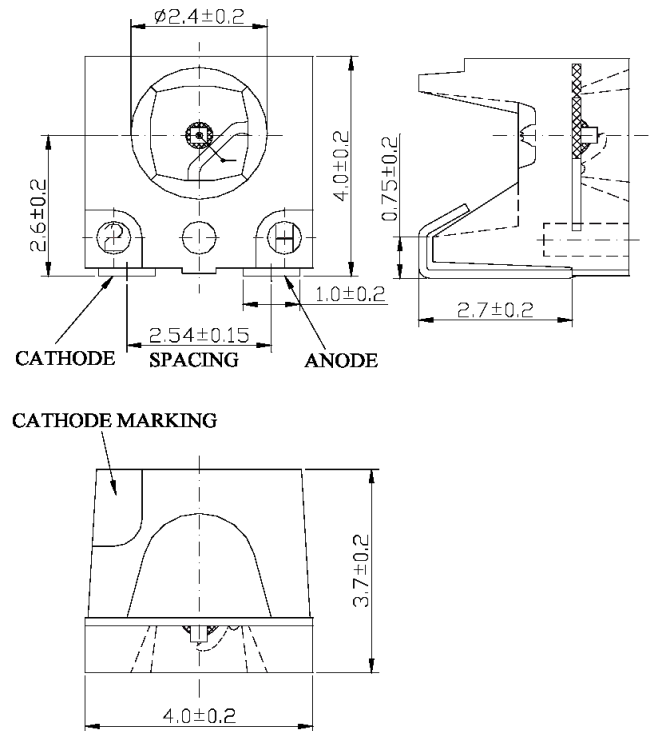


LS1-TYL1-01

Applications

Optical indicators
Coupling into light guides
Back lights (LCD, switches, keys, displays, illuminated advertising, general lighting)
Interior automotive lighting (dashboard backlighting)
Marker lights (steps, exit ways)
Signal and symbol luminaire
Automotive applications



Dimensions are specified as follows: mm.

Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Unit
Forward Current	I _F	50	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	130.00	mW
Operating Temperature	T _{opr}	-40 ~ +100	°C
Storage Temperature	T _{stg}	-40 ~ +100	°C
Soldering Temperature	T _{sol}	250	°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 =20mA	—	2.10	2.60	V
Reverse Current	I _R	V _R =5V	—	—	10	μA
Luminous Intensity	I _v	I _F =20mA	224.00	320.00	—	mcd
Viewing Angle	2θ ^{1/2}	—	—	120°	—	deg.
Peak Wavelength	λ _p	I _F =20mA	—	594	—	nm
Dominant Wavelength	λ _d	I _F =20mA	—	591	—	nm
Spectral Line Half Width	Δλ	I _F =20mA	—	20	—	nm

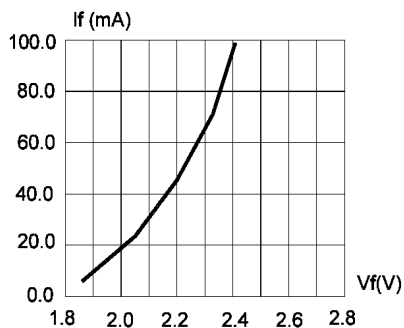


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

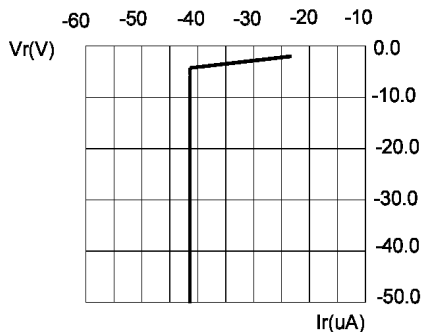


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

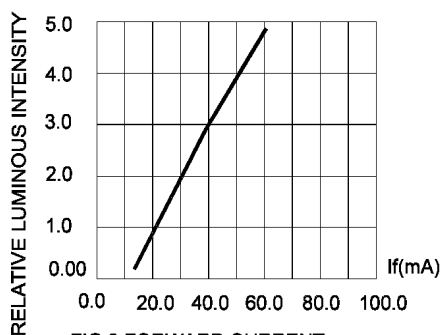


FIG.3 FORWARD CURRENT.

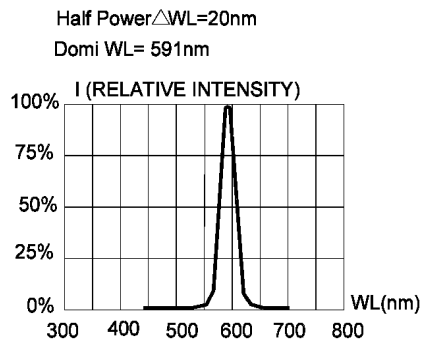


FIG.4 RELATIVE INTENSITY VS. WAVE LENGTH.

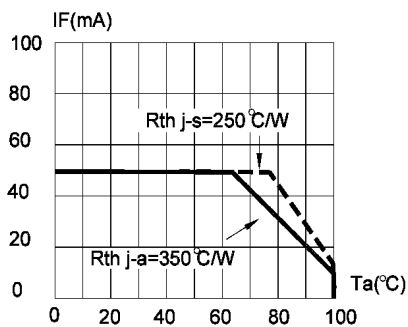


FIG.5 MAXIMUM FORWARD DC CURRENT VS TEMPERATURE. DERATING BASED ON $T_{jmax} = 110^{\circ}C$

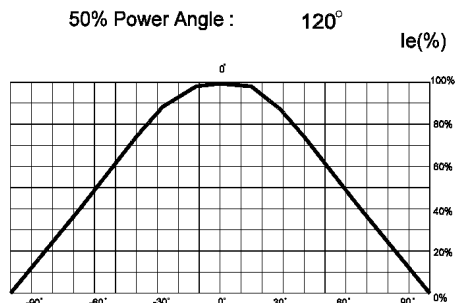


FIG.6 SPATIAL DISTRIBUTION.