

Features:

- High radiant power PLCC2 top SMD LEDs
- 3.5 x 2.8 x 1.9mm standard directivity
- Superior weather-resistance
- UV resistant silicone
- Water clear type



Applications

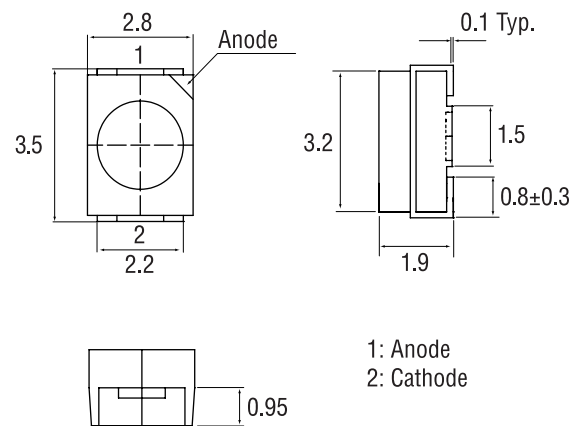
- Automatic control system
- Photo detector
- Computer I/O peripheral

Absolute maximum rating (Ta=25°C)

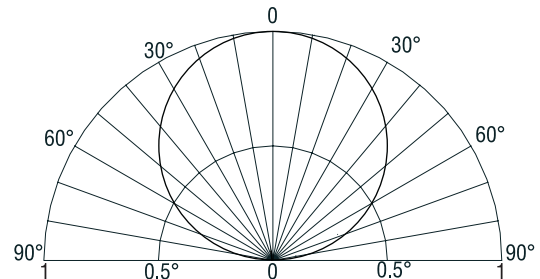
Item	Symbol	Value	Unit
DC forward current	I_F	100	mA
Pulse forward current*	I_{FP}	1000	mA
Reverse voltage	V_R	5	V
Power dissipation	P_D	180	mW
Operating temperature	T_{opr}	-30 to +85	°C
Storage temperature	T_{stg}	-40 to +100	°C
Lead soldering temperature	T_{sol}	260°C/5sec	-

*Pulse width max. 10ms. Duty ratio max. 1/10

Outline dimensions:



Directivity:



Electrical - Optical characteristics (Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC forward voltage ³	V_F	$I_F = 100\text{mA}$	-	1.6	1.8	V
DC reverse current	I_R	$V_R = 5\text{V}$	-	-	10	μA
Peak wavelength ¹	λ_p	$I_F = 100\text{mA}$	-	940	-	nm
Radiant intensity ²	I_e	$I_F = 100\text{mA}$	10	20	-	mW/Sr
50% Power angle	$2\theta_{1/2}$	$I_F = 100\text{mA}$	-	120	-	deg

1 Tolerance of measurements of peak wavelength is $\pm 1\text{nm}$
 2 Tolerance of measurements of radiant intensity is $\pm 15\%$
 3 Tolerance of measurements of forward voltage is $\pm 0.1\text{V}$