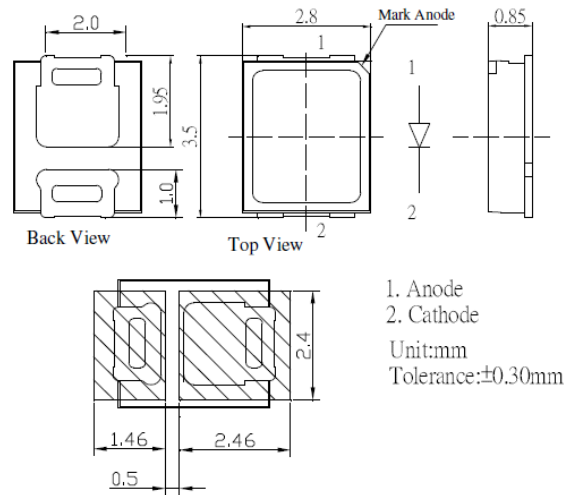


■Features

- Highest luminous flux
- Super energy efficiency
- Long Lifetime Operation
- Superior UV Resistance

■Applications

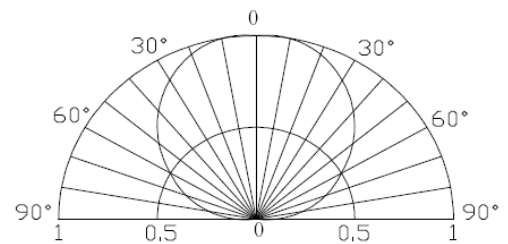
- Horticulture lighting
- Medical appliances

■Outline Dimension

■Absolute Maximum Rating

(Ta=25°C)

Item	Symbol	Value	Unit
DC Forward Current	I_F	150	mA
Pulse Forward Current*	I_{FP}	200	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	600	mW
Operating Temperature	T_{opr}	-30 ~ +85	°C
Storage Temperature	T_{stg}	-40~ +100	°C
Lead Soldering Temperature	T_{sol}	260°C/5sec	-

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

■Directivity

■Electrical -Optical Characteristics

(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage	V_F	$I_F=150mA$	2.0	2.3	3.0	V
DC Reverse Current	I_R	$V_R=5V$	-	-	10	μA
Peak. Wavelength	λ_P	$I_F=150mA$	720	730	740	nm
Radiant Power	P_o	$I_F=150mA$	-	60	-	mW
50% Power Angle	$2\theta_{1/2}$	$I_F=150mA$	-	120	-	deg

Note: Don't drive at rated current more than 5s without heat sink for Power Top H emitter series.

■Forward Operating Current (DC)

RELIABILITY TEST REPORT

CLASSIFICATION	TEST ITEM	TEST CONDITON
ENDURANCE TEST	OPERATION LIFE	If: 150mA Ta: 25±5 TEST ITEM=1000HRS(-24HRS,+72HRS)
	HIGH TEMPERTURE HIGH HUMIDITY STORAGE	R.H:90~95% Ta: 65±5°C TEST ITEM=240HRS(+2HRS)
	HIGH TEMPERTURE STORAGE	Ta: 105±5°C TEST ITEM=500HRS(-24HRS,+48HRS)
	LOW TEMPERTURE STORAGE	Ta: -55±5°C TEST ITEM=500HRS(-24HRS,+48HRS)
ENVIRONMENTAL TEST	TEMPERTURE CYCLING	105°C ~25°C ~-55°C ~25°C 60min 10min 60min 10min 20cycles
	THERMAL SHOCK	105°C ~-55°C 10min 10min 10cycles
	SOLDER RESISTANCE	Ta: 260±5°C TEST ITEM=10±1sec
	SOLDERABILITY	Ta: 230±5°C TEST ITEM=5±1sec

JUDGMENT CRITERIA OF FALURE FOR THE RELIABILITY

MEASURING ITME	SYMBOL	CONDITIONS	FAILURE
LUMINOUS FLUX	Φ_v	IF=150mA	IV<0.5*INITIAL VALUE
FORWARD VOLTAGE	VF	IF=150mA	VF>1.2*INITIAL VALUE
REVERSE CURRENT	IR	Vr=5V	IR>2*SPEC