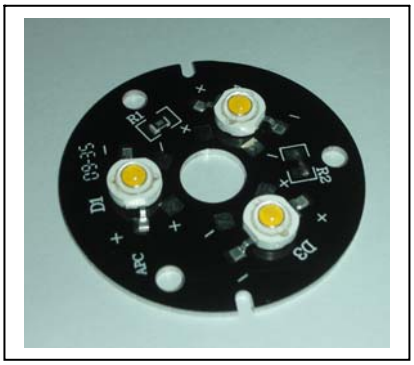
ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Features



- Long operating life
- Highest flux
- More energy efficent than incandescent and Most halogen lamps
- Low voltage DC operated
- Instant light (less than 100ns)
- Fully dimmable
- No UV
- Superior ESD protection
- RoHS compliant

Applications

- Fiber optic alternative/ Decorative / Entertainment
- Mini-accent/Up lighters/Down lighters/ Orientation
- Indoor/Outdoor commerclal and Residentlal Architectural
- Cove/Under shelf/Task
- Bollards/Security/Garden
- Portable (flashlight, bicycle)
- Edge-lit signs (Exit, point of sale)
- Automotive Exit (Stop-Tail-Turn,CHMSL, Mirror Side Repeat)
- Traffic signaling / Beacons / RailCrossing and Wayside

■Typical Optical/ Electrical Characteristics @T_J=25℃

Item	--	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	D1/ D2/ D3	V_F	IF=350mA	3.0	--	3.8	V
Reverse Current		I_R	VR=5v	--	--	50	uA
50% Power Angle		2θ1/2	IF=350mA	--	140	--	deg
Luminous Intensity		Φ_V	IF=350mA	70	--	80	lm
Recommend Forward Current		I_F	- -	--	350	--	mA
Chromaticity		T_C	IF=350mA	2800	3000	3200	nm
Thermal Resistance,Junction to Case		R_{JP}	IF=350mA	--	10	--	℃/W
Electric resistance	R1	R	--	--	1	--	Ω
	R2	R	--		0	--	Ω

Notes: 1.Tolerance of measurement of forward voltage±0.2V.

2.Tolerance of measurement of peak Wavelength±2.0nm.

3.Tolerance of measurement of luminous intensity±15%.

■Absolute Maximum Rating

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	I_F	350	mA
Peak Forward Current*	I_{FP}	500	mA
Reverse Voltage	V_R	15	V
Power Dissipation	P_D	4200	mW
Electrostatic discharge	E_{SD}	±4500	V
Operation Temperature	T_{OPR}	-40~+80	℃
Storage Temperature	T_{STG}	-40~+100	℃
Lead Soldering Temperature*	T_{SOL}	Max. 260℃ for 3sec Max.	

*IFP Conditions：Pulse Width≤10msec duty≤1/10

* All high power emitter LED products mounted on aluminum metal-core printed circuit board, can be lighted directly, but we do not recommend lighting the high power products for more than 5 seconds without a appropriate heat dissipation equipment.

*Re-flow,wave peak and soak-stannum soldering etc.is not suitable for this products.

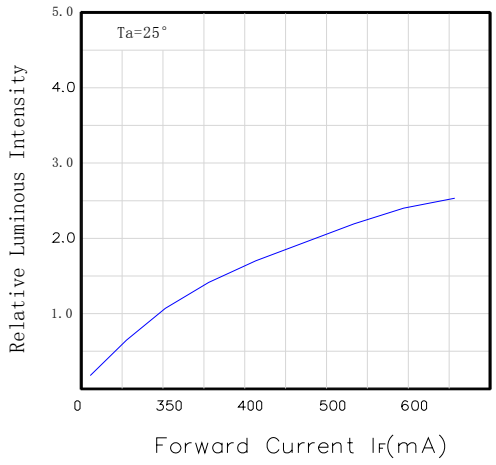
*Suggest to solder it by professional high power LED soldering machine.

*Can use invariable-temperature searing-iron with soldering condition :≤260 degree less than 3 seconds.

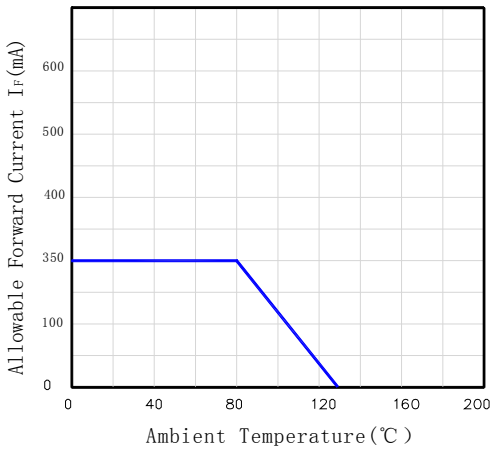
■Typical Optical/Electrical Characteristics Curves

(T_J=25℃ Unless Otherwise Noted)

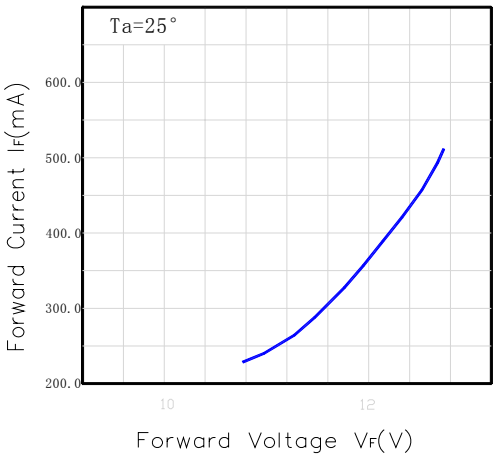
Relative Luminous Intensity – IF



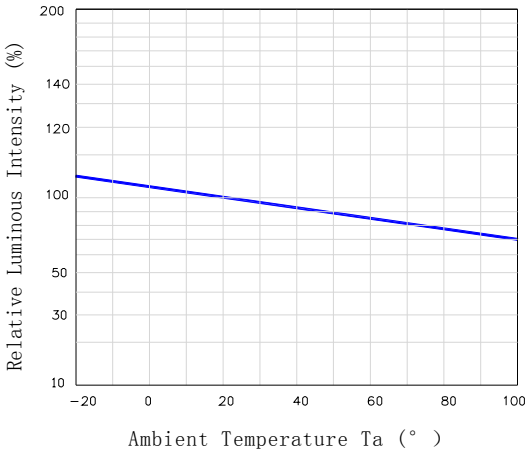
Allowable Forward Current – Ta



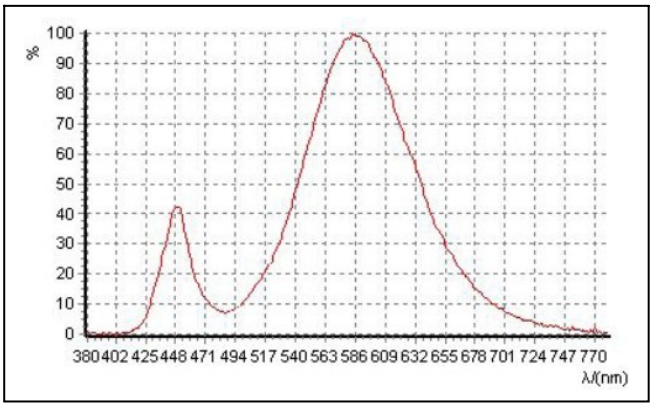
IF – VF



Relative Luminous Intensity – Ta

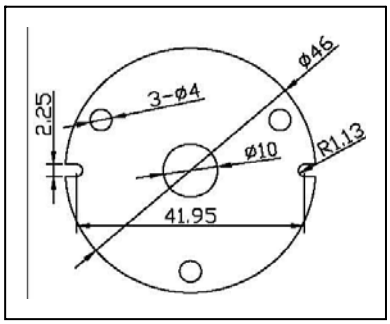


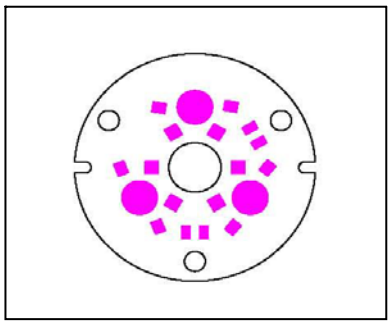
Wavelength Characteristics

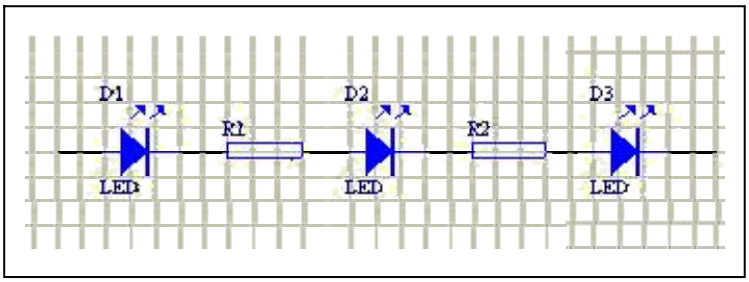


Wavelength λ (nm)

Package Dimensions







Notes:1. All dimension units are millimeters.

2. All dimension tolerance is ±0.2mm unless otherwise noted.