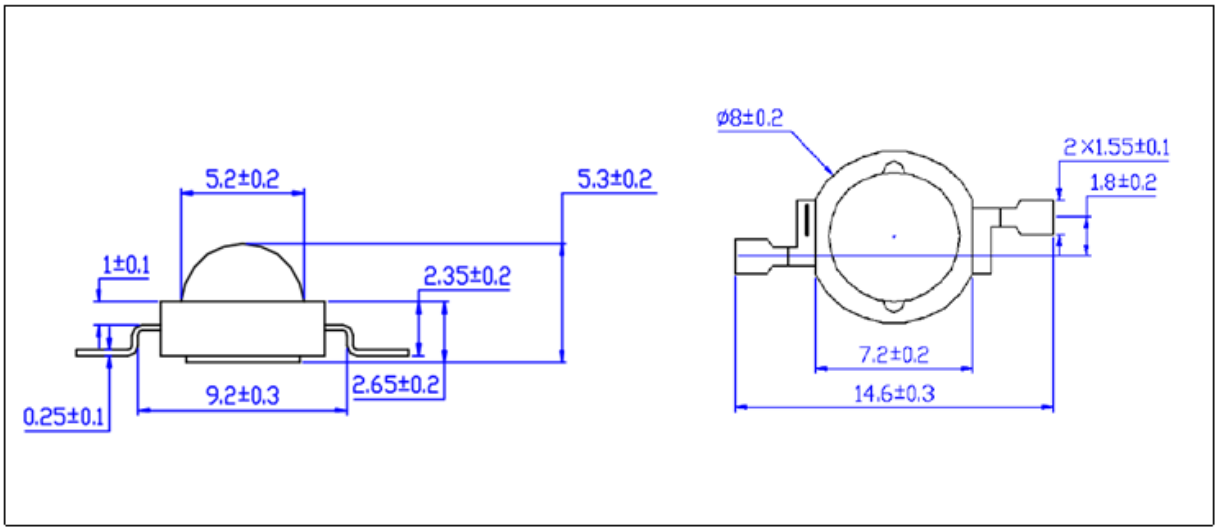
YETDA INDUSTRY LTD.

1W UV HIGH POWER LED (EMITTER-6)
UV031E-440

Features	Applications
* Long operating life	* Reading lights (car, bus, aircraft)
* Highest flux	* LCD Backlights/light Guides
* Lambertian radiation pattern	* Mini-accent/Up lighters/Down lighters/ Orientation
* More energy efficient than incandescent and most halogen lamps	* Indoor/Outdoor commerclal and Residentlal Architectural
* Low voltage DC operated	* Cove/Under shelf/Task
* Cool beam, safe to the touch	* Bollards/Security/Garden
* Instant light (less than 100ns)	* Portable (flashlight, bicycle)
RoHS compliant	* Edge-lit signs (Exit, point of sale)
	* Automotive Exit (Stop-Tail-Turn,CHMSL, Mirror Side Repeat)
	* Traffic signaling / Beacons / RailCrossing and Wayside

PACKAGE

Item:X031E



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Typical Optical/ Electrical Characteristics @TJ=25℃

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	IF=350mA	3.2		3.4	V
Reverse Current	I_R	VR=5v			5	uA
50% Power Angle	$2\theta 1/2$	IF=350mA		140		deg
Luminous Intensity	φV	IF=350mA	15		20	lm
Recommend Forward Current	I_F	--		350		mA
Wavelength	λd	IF=350mA	440		445	nm

Notes:

1. Tolerance of measurement of forward voltage±0.1V.
2. Tolerance of measurement of peak Wavelength±2.0nm.
3. Tolerance of measurement of luminous intensity±15%.

Absolute Maximum Rating

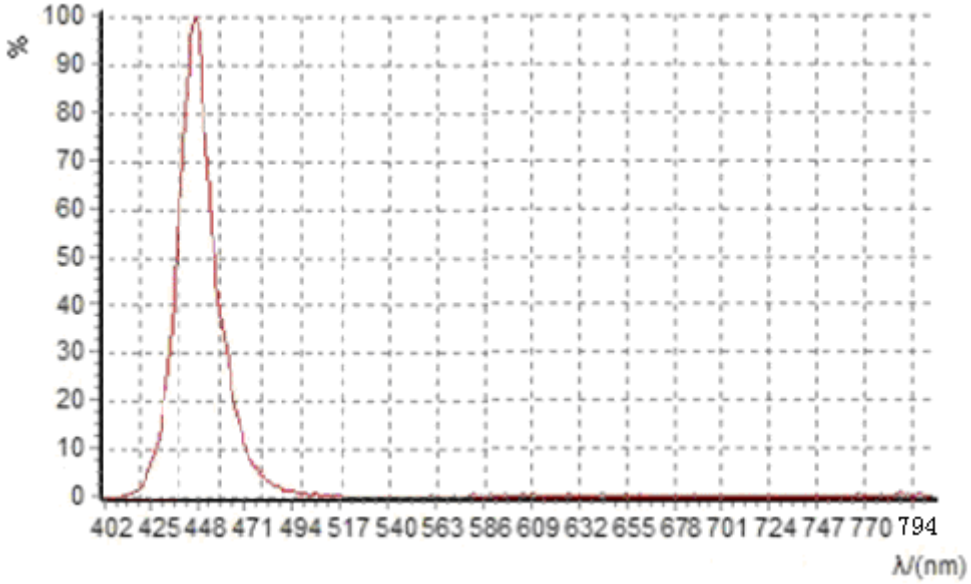
Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	I_F	350	mA
Operation Temperature	T_{OPR}	-30~+60	℃
Storage Temperature	T_{STG}	-40~+90	℃
Lead Soldering Temperature*	T_{SOL}	Max. 260℃ for 3sec Max.	

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

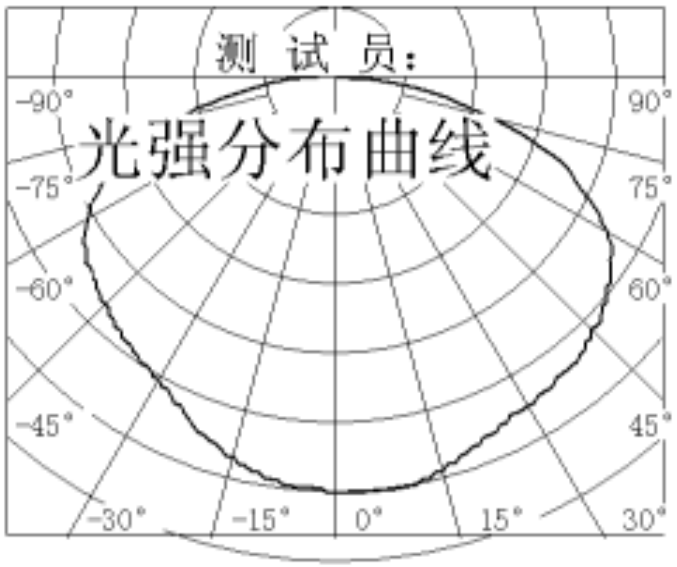
* All high power emitter LED products mounted on aluminum metal-core printed circuit board, can be lighted directly, but we do not recommend lighting the high power products for more than 5 seconds without a appropriate heat dissipation equipment.
* Re-flow, wave peak and soak- stannum soldering etc.is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

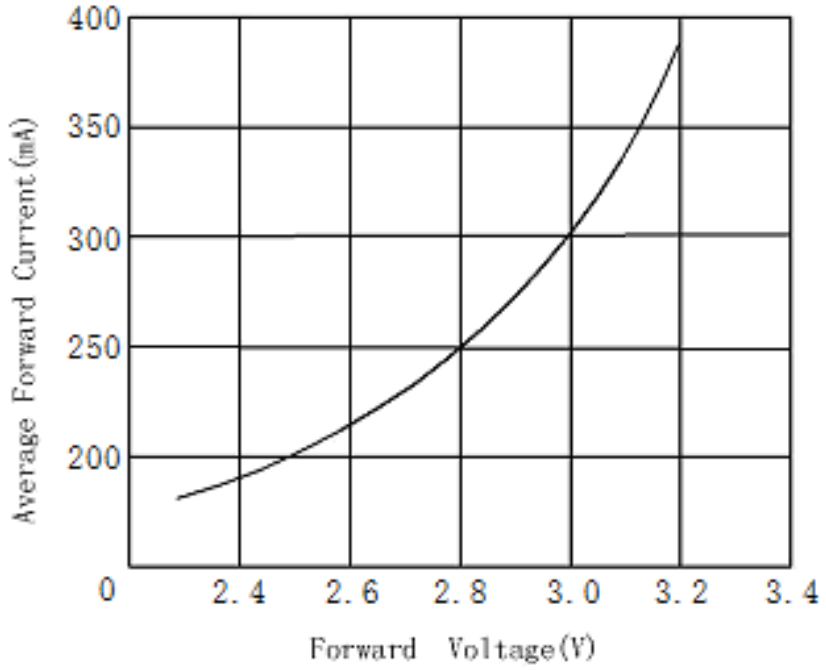
Electrical/Optical Characteristics Curves

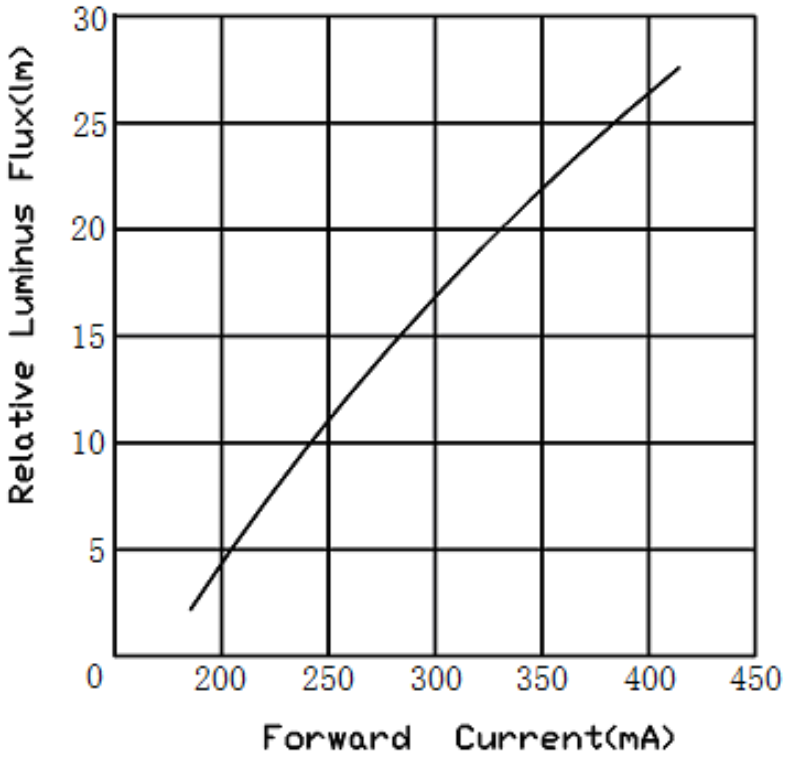
◆ 发射光谱



◆ 典型辐射分布图




400
350
300
250
200
0
2.4
2.6
2.8
3.0
3.2
3.4
Average Forward Current(mA)
Forward Voltage(V)


30
25
20
15
10
5
0
200
250
300
350
400
450
Relative Luminus Flux(lm)
Forward Current(mA)