



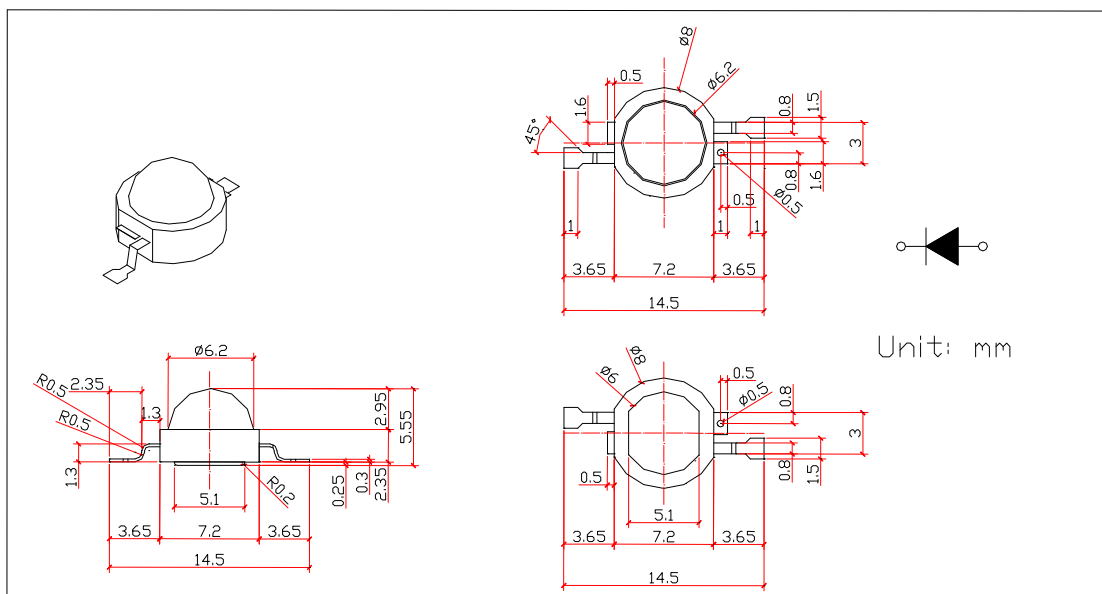
# YETDA INDUSTRY LTD.

## 0.5W HIGH POWER LED (EMITTER-6) W015E

Features	Applications
* Long operating life	* Reading lights (car, bus, aircraft)
* Highest flux	* LCD Backlights/light Guides
* Available in White:2500K-8000K	* Fiber optic alternative/ Decorative Entertainment
* Lambertian radiation pattern	* Mini-accent/Up lighters/Down lighters/ Orientation
* More energy efficient than incandescent and most halogen lamps	* Indoor/Outdoor commercial and Residential 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)
* Fully dimmable	* Edge-lit signs (Exit, point of sale)
* No UV	* Automotive Exit (Stop-Tail-Turn,CHMSL, Mirror Side Repeat)
* Superior ESD protection	* Traffic signaling / Beacons / RailCrossing and Wayside
* Eutectic die bonding	
* RoHS compliant	

### PACKAGE

Item:X015E





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## Typical Optical/ Electrical Characteristics @T<sub>J</sub>=25°C

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =150mA	3.0		3.8	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5v			10	uA
50% Power Angle	2θ <sub>1/2</sub>	I <sub>F</sub> =150mA		140		deg
Luminous Intensity	φ <sub>V</sub>	I <sub>F</sub> =150mA		40		lm
Recommend Forward Current	I <sub>F</sub>	--		175		mA
Chromaticity	T <sub>C</sub>	I <sub>F</sub> =150mA		7000		k
Thermal Resistance, Junction to Case	R <sub>JP</sub>	I <sub>F</sub> =150mA		10		°C/w

### 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 <sub>F</sub>	150	mA
Peak Forward Current*	I <sub>FP</sub>	1200	mA
Reverse Voltage	V <sub>R</sub>	5	V
Power Dissipation	P <sub>D</sub>	2800	mW
Electrostatic discharge	E <sub>SD</sub>	±4000	V
Operation Temperature	T <sub>OPR</sub>	-30~+100	°C
Storage Temperature	T <sub>STG</sub>	-40~+100	°C
Lead Soldering Temperature*	T <sub>SOL</sub>	Max. 260°C 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.

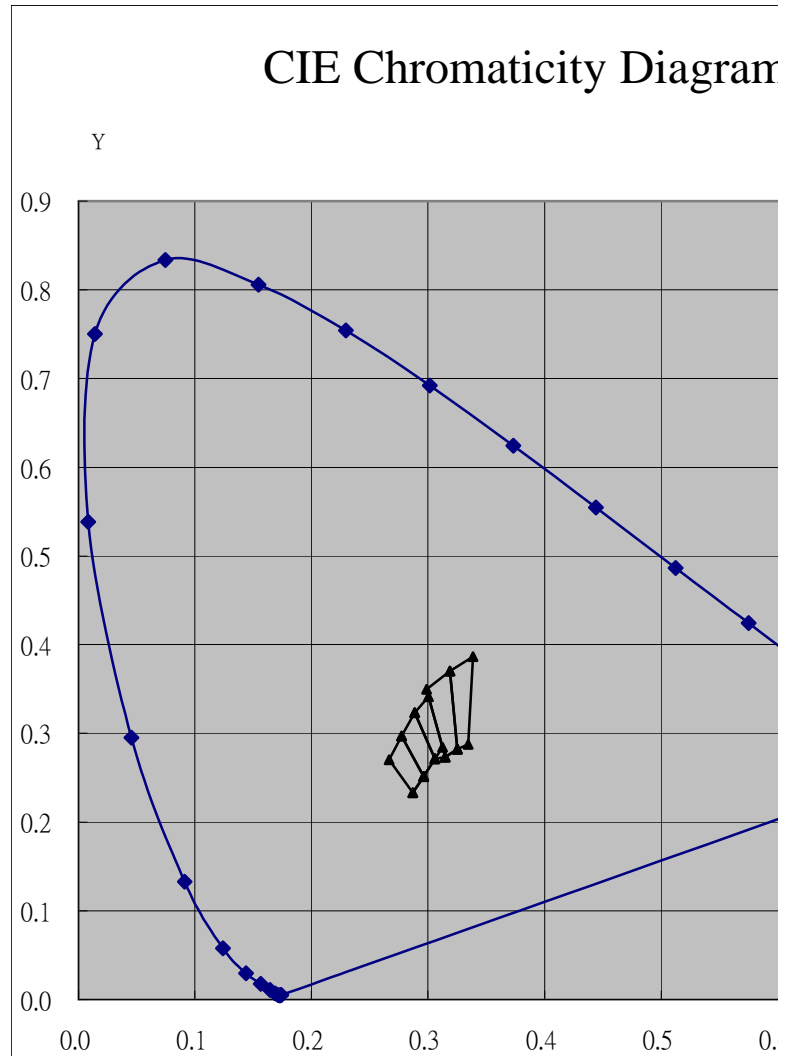
\* Suggest to solder it by professional high power LED soldering machine.

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



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10000-16000K	0.2871	0.2329
	0.2962	0.2512
	0.2775	0.2968
	0.2668	0.2703
8000-10000K	0.2871	0.2329
	0.2962	0.2513
	0.306	0.2711
	0.2885	0.3233
7000-8000K	0.2775	0.2968
	0.2962	0.2513
	0.306	0.2711
	0.3125	0.2843
6000-7000K	0.3004	0.3414
	0.2885	0.3233
	0.306	0.2711
	0.3148	0.2731
5500-6000K	0.3253	0.2821
	0.3189	0.3701
	0.2988	0.3495
	0.3148	0.2731
	0.3253	0.2821
	0.3346	0.2875
	0.3386	0.3863
	0.3189	0.3701
	0.3253	0.2821



## Color Ranks(IF=350mA,Ta=25°C)

Color Ranks	CIE X,Y				
	X	Y	X	Y	
12000-16000K	X	0.2871	0.2962	0.2775	0.2668
	Y	0.2329	0.2512	0.2968	0.2703
8000-10000K	X	0.2962	0.306	0.2885	0.2775
	Y	0.2513	0.2711	0.3233	0.2968
7000-8000K	X	0.306	0.3125	0.3004	0.2885
	Y	0.2711	0.2843	0.3414	0.3233
6000-7000K	X	0.3095	0.3231	0.3196	0.3004
	Y	0.2986	0.312	0.3602	0.3414
5500-6000K	X	0.3231	0.3361	0.3381	0.3196
	Y	0.312	0.3245	0.3762	0.3602

X,Y:±0.015