



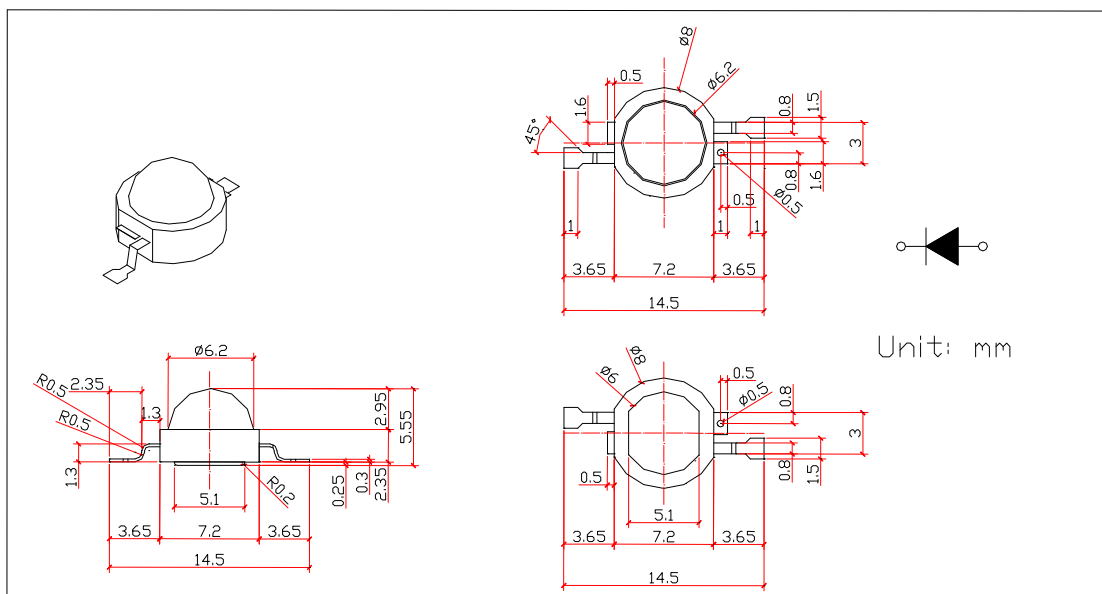
# YETDA INDUSTRY LTD.

## 0.5W HIGH POWER LED (EMITTER-6) WW015E

Features	Applications
* Long operating life	* Reading lights (car, bus, aircraft)
* Highest flux	* LCD Backlights/light Guides
* Available in Warm White:2500K-4500K	* 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>	--		150		mA
Chromaticity	T <sub>C</sub>	I <sub>F</sub> =150mA		3000		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>	1000	mA
Reverse Voltage	V <sub>R</sub>	5	V
Power Dissipation	P <sub>D</sub>	1400	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.

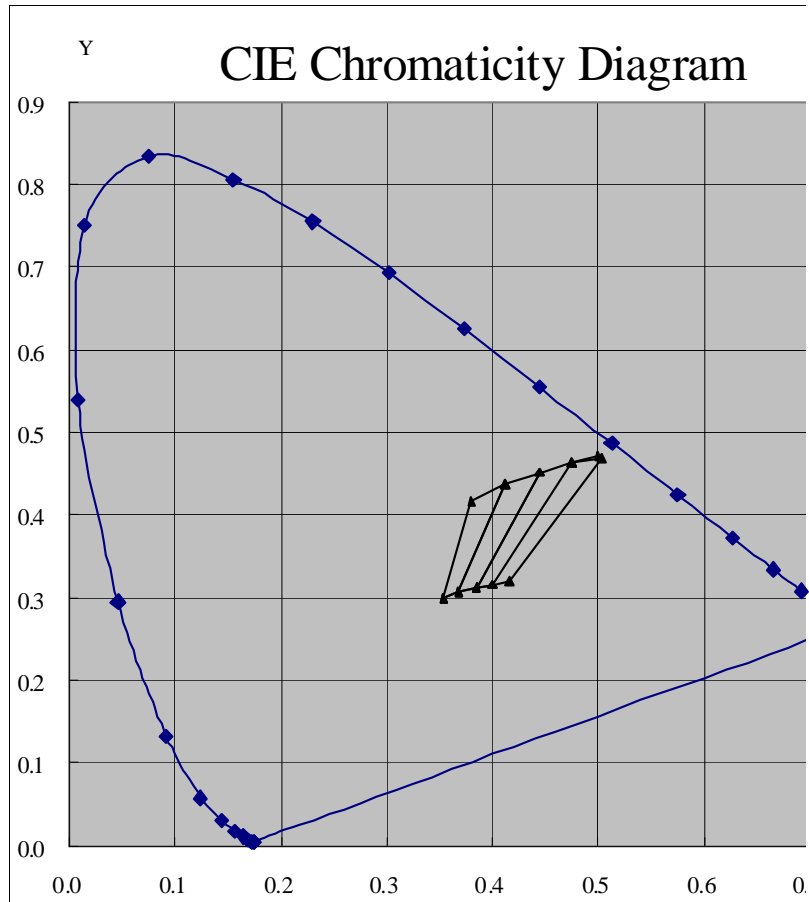
\* Suggest to solder it by professional high power LED soldering machine.

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



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3700-4200K	0.3538	0.2986
	0.3682	0.306
	0.4114	0.4372
	0.3802	0.417
3250-3700K	0.3538	0.2986
	0.3682	0.306
	0.3843	0.3112
	0.4451	0.4516
2850-3250K	0.4114	0.4372
	0.3682	0.306
	0.3843	0.3112
	0.3995	0.3159
2550-2850K	0.4751	0.4627
	0.4451	0.4516
	0.3843	0.3112
	0.3995	0.3159
	0.4153	0.3194
	0.5033	0.4694
	0.4751	0.4627
	0.5	0.471



## Color Ranks(IF=700mA,Ta=25°C)

Color Ranks	CIE X,Y				
	3700-4200K	X	0.3538	0.3682	0.4114
	Y	0.2986	0.306	0.4372	0.417
3250-3700K	X	0.3682	0.3843	0.2885	0.2775
	Y	0.306	0.3112	0.4451	0.4114
2850-3250K	X	0.3843	0.3995	0.4751	0.4451
	Y	0.3112	0.3159	0.4627	0.4516
2550-2850K	X	0.3995	0.4153	0.5033	0.4751
	Y	0.3159	0.3194	0.4694	0.4627

X ,Y:±0.015