

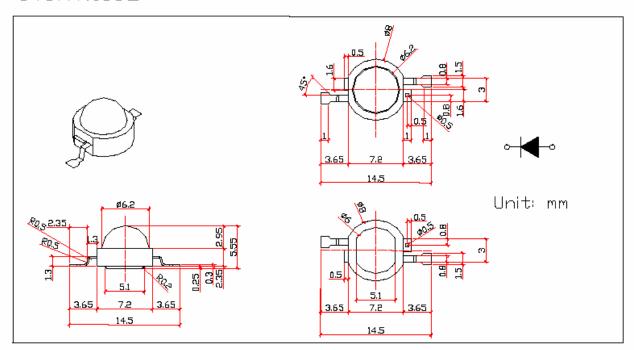
# YETDA INDUSTRY LTD.

#### 0.5W HIGH POWER LED (EMITTER-6) PW015E

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Features	Applications			
* Long operating life	* Reading lights (car, bus, aircraft)			
* Highest flux	* LCD Backlights/light Guides			
* Available in White:2500K-25000K	* Fiber optic alternative/ Decorative Entertainment			
* Lambertian radiation pattern	* Mini-accent/Up lighters/Down lighters/ Orientation			
* More energy efficient than incandescent and most	* Indoor/Outdoor commercial and Residential			
halogen lamps	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 / Rail Crossing and			
	Wayside			
* Eutectic die bonding				
* RoHS compliant				

#### **PACKAGE**

## Item:X015E





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Typical Optical/ Electrical Characteristics @TJ=25℃

Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage	VF	I <sub>F</sub> =150mA	2.80		4.0	V
Reverse Current	lr	V <sub>R</sub> =5v			50	uA
Viewing Angle	201/2	I <sub>F</sub> =150mA		140		deg
Luminous Intensity	φV	I <sub>F</sub> =150mA		95		lm
Recommend Forward Current	lf			150		mA
Chromaticity	Тс	I <sub>F</sub> =150mA	4000		4500	k
Thermal Resistance, Junction to	Б	I 450 A		40		°C to
Case	RJP	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** 

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Item	Symbol	<b>Absolute Maximum Rating</b>	Unit
Forward Current	lF	150	mA
Peak Forward Current*	<b>I</b> FP	200	mA
Reverse Voltage	VR	5	V
Power Dissipation	Po	1000	mW
Electrostatic discharge	Esp	±4500	V
Operation Temperature	Topr	-40~+80	$^{\circ}\mathbb{C}$
Storage Temperature	Тѕтс	-40~+100	$^{\circ}\mathbb{C}$
Lead Soldering Temperature*	TsoL	Max. 260°C for 3sec Max.	

<sup>\*</sup>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.