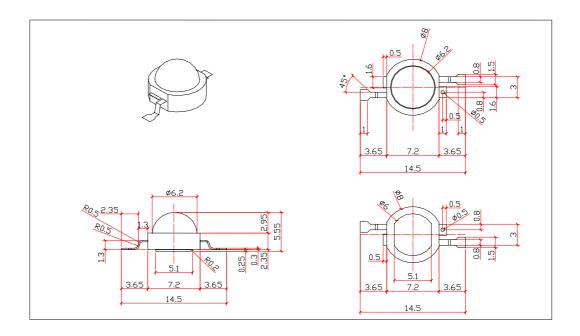


YETDA INDUSTRY LTD.

5W HIGH POWER LED (EMITTER V) W081E-5W

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 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





Typical Optical/ Electrical Characteristics @TJ=25									
Item	Symbol	Condition	Min.	Тур.	Max.	Unit			
Forward Voltage	VF	IF=700mA	6.		8.0	V			
Reverse Current	IR	VR=5v			50	uA			
50% Power Angle	201/2	IF=700mA		120		deg			
Luminous Intensity V	φV	IF=700mA	250		280	Im			
Luminous Intensity W	φV	IF=700mA	150		200	Im			
Recommend Forward Current	IF			700		mA			
Chromaticity	Тс	IF=700mA	6000		7000	k			
Thermal Resistance, Junction to Case	RJP	IF=700mA		10		/w			

Typical Optical/ Electrical Characteristics @TJ=25

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

	9		
Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	lf	700	mA
Peak Forward Current*	I FP	1200	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	3000	mW
Electrostatic discharge	Esd	±4500	V
Operation Temperature	Topr	-40~+80	
Storage Temperature	Tstg	-40~+100	
Lead Soldering	-		
Temperature*	Tsol	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.

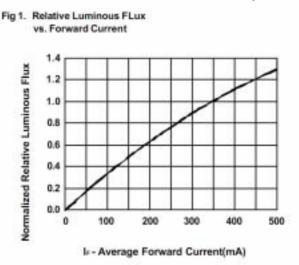
* Can use invariable-temperature searing-iron with soldering condition:≤260 degree less than 3 seconds.

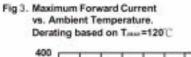


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Typical Optical/Electrical Characteristics Curves

(TJ=25 Unless Otherwise Noted)





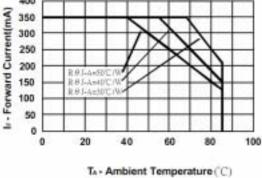
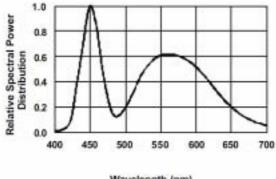


Fig 5. Relative Spectral Power Distribution vs. Wavelength



Wavelength (nm)

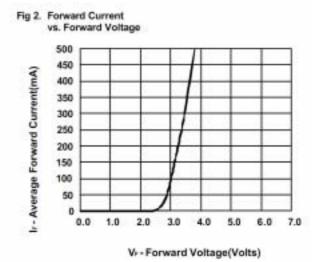
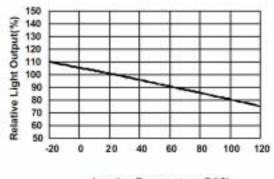
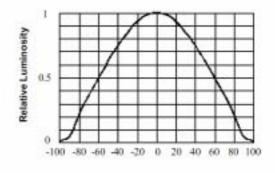


Fig 4. Relative Light Output vs. Junction Temperature



Junction Temperature, T_i('C)

Fig 6. Relative Luminosity vs. Radiation Angle

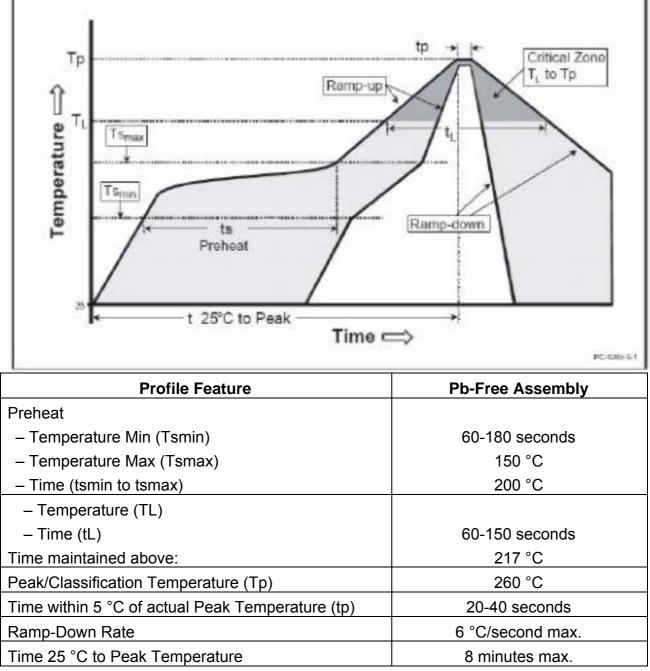


Radiation Angle(Degrees)



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Reflow Soldering Characteristics



Notes

1. All temperatures refer to Solder Pad