

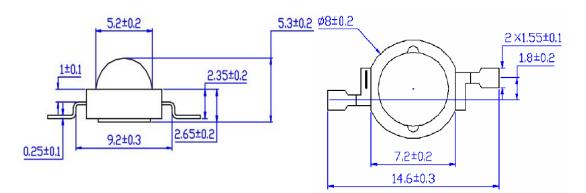
YETDA INDUSTRY LTD.

# 2W HIGH POWER LED (EMITTER)

# R051E-HTL

Features	Applications
* Long operating life	* Reading lights (car, bus, aircraft)
* Highest flux	* LCD Backlights/light Guides
* Available in Red	* 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 / Rail Crossing and Wayside
* Eutectic die bonding	
* RoHS compliant	

## PACKAGE





### Typical Optical/ Electrical Characteristics @TJ=25℃

Item	Sym bol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage	Vf	l⊧=500mA	2.2		2.8	V
Reverse Current	Ir	Vr=5v	0		1	uA
Viewing Angle	201/2	I⊧=500mA		140		deg
Luminous Intensity	φV	l⊧=500mA		70		Im
Recommend Forward Current	lF			500		mA
Wavelength	Тс	l⊧=500mA		625		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	lF	500	mA
Peak Forward Current*	IFP	700	mA
Reverse Voltage	Vr	5	V
Power Dissipation	PD	1000	mW
Electrostatic discharge	Esd	±4500	V
Operation Temperature	Topr	-40~+80	°C
Storage Temperature	Тѕтс	-40~+100	°C
Lead Soldering Temperature*	Tsol	Max. 260 $^\circ\!\mathbb{C}$ 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.



Electrical/Optical Characteristics Curves ( 電氣/光學特性曲線)

