



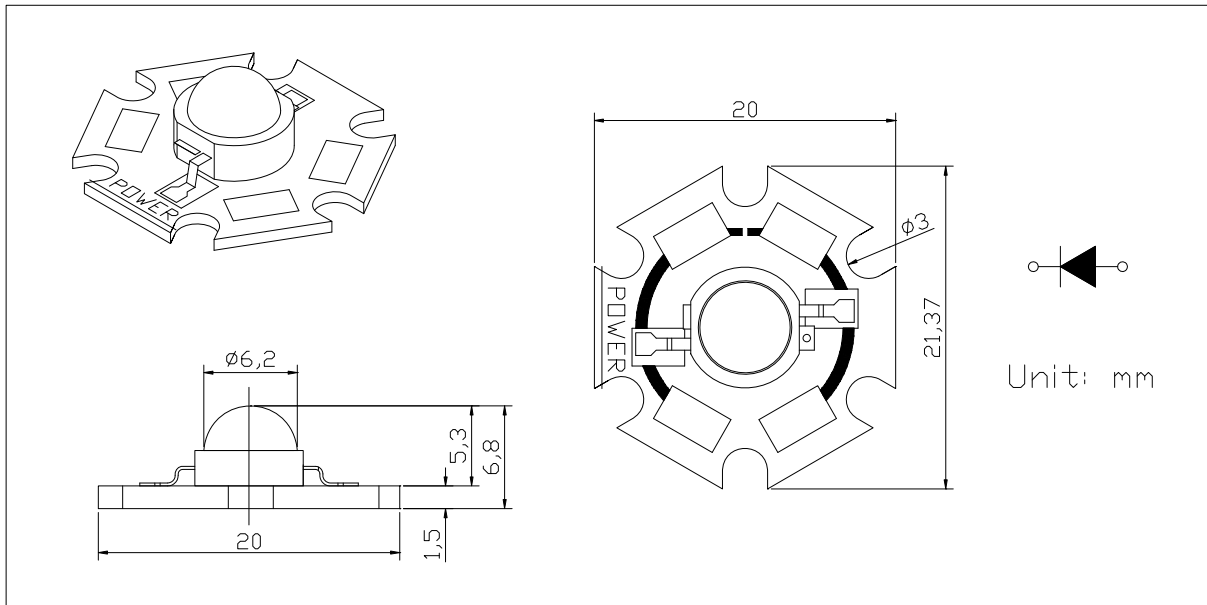
YETDA INDUSTRY LTD.

**3W HIGH POWER RED LED (STAR III)
D081F**

Features	Applications
* Long operating life	* Reading lights (car, bus, aircraft)
* Highest flux	* LCD Backlights/light Guides
* 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:X081F





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Typical Optical/ Electrical Characteristics @T_J=25°C

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F =700mA	1.8		2.5	V
Reverse Current	I _R	V _R =5v			50	uA
50% Power Angle	2θ _{1/2}	I _F =700mA		120		deg
Luminous Intensity	φ _V	I _F =700mA		35		lm
Recommend Forward Current	I _F	--		700		mA
Wavelength	λ _p	I _F =700mA		660		nm
	λ _d			645		nm
Thermal Resistance, Junction to Case	R _{JP}	I _F =700mA		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 _F	700	mA
Peak Forward Current*	I _{FP}	1200	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	3000	mW
Electrostatic discharge	E _{SD}	±4500	V
Operation Temperature	T _{OPR}	-40~+80	°C
Storage Temperature	T _{STG}	-40~+100	°C
Lead Soldering Temperature*	T _{SOL}	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.