

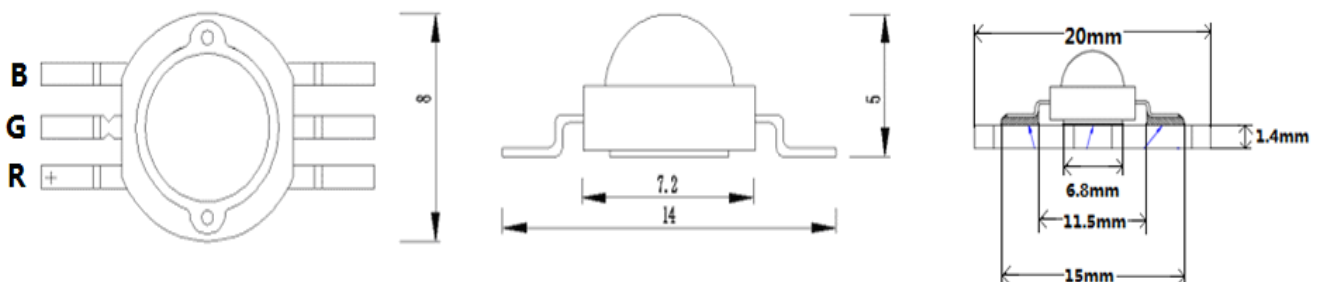


YETDA INDUSTRY LTD.

0.5W HIGH POWER FULL-COLOR LED (EMITTER-6) RGB015E

Features	Applications
* Long operating life	* Reading lights (car, bus, aircraft)
* Highest flux	* LCD Backlights/light Guides
* Available in White, Warm White, Red, Yellow, Blue	* 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



- Notes: 1. All dimensions are in mm
2. Drawings are not to scale

13APR1F



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Typical Optical/ Electrical Red LED Characteristics @T_J=25°C

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F =150mA		2.0	2.4	V
Reverse Current	I _R	V _R =5v			50	μA
Viewing Angle	2θ _{1/2}	I _F =150mA		140		deg
Luminous Intensity	φ _V	I _F =150mA	10	15		lm
Recommend Forward Current	I _F	--		150		mA
Wavelength	λ _d	I _F =150mA		625		nm

Typical Optical/ Electrical Green LED Characteristics @T_J=25°C

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F =150mA		2.8	4.0	V
Reverse Current	I _R	V _R =5v			50	μA
Viewing Angle	2θ _{1/2}	I _F =150mA		140		deg
Luminous Intensity	φ _V	I _F =150mA	35	40		lm
Recommend Forward Current	I _F	--		150		mA
Wavelength	λ _d	I _F =150mA		525		nm

Typical Optical/ Electrical Blue LED Characteristics @T_J=25°C

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F =150mA		2.8	4.0	V
Reverse Current	I _R	V _R =5v			50	μA
Viewing Angle	2θ _{1/2}	I _F =150mA		140		deg
Luminous Intensity	φ _V	I _F =150mA	15	20		lm
Recommend Forward Current	I _F	--		150		mA
Wavelength	λ _d	I _F =150mA		470		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



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Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	I _F	150	mA
Peak Forward Current*	I _{FP}	200	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	1000	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.