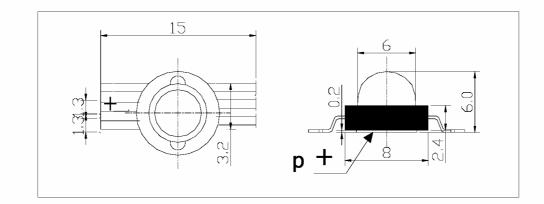


3W HIGH POWER LED (EMITTER III) RGB081E

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	* 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 / RailCrossing and
	Wayside
* Eutectic die bonding	
* RoHS compliant	

PACKAGE





			Min	Ture	Max	11
Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage	VF (R)	IF=700mA	2.1		2.65	V
	VF (G)		3.0		4.0	
	VF (B)		3.0		4.0	
Reverse Current	IR	VR=5v			50	uA
50% Power Angle	201/2	IF=700mA		120		deg
	φV (R)			75		
Luminous Intensity	Φv (G)	IF=700mA		120		Im
	Фv (В)			30		
Recommend Forward Current	IF			700		mA
Wavelength	d (R)	IF=700mA		625		
	d (G)			520		nm
	d (B)			465		
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%.



Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	lF	700	mA
Peak Forward Current*	IFP	1200	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	5000	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.	

Absolute Maximum Rating

*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.

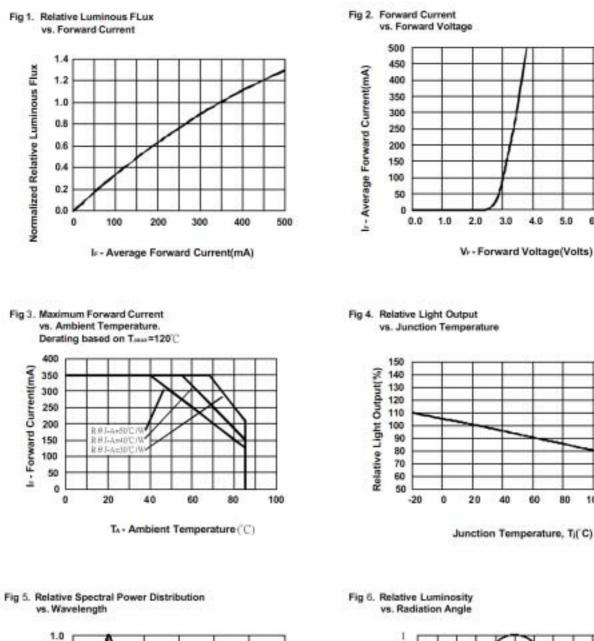
* Suggest to solder it by professional high power LED soldering machine.

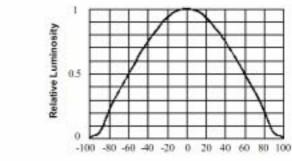
* Can use invariable-temperature searing-iron with soldering condition:≤260 degree less than 3 seconds.

Typical Optical/Electrical Characteristics Curves

(TJ=25 Unless Otherwise Noted)







Radiation Angle(Degrees)

3.0

40

60

80

100

120

4.0

5.0

6.0

7.0

450

500

550

Wavelength (nm)

600

650

700

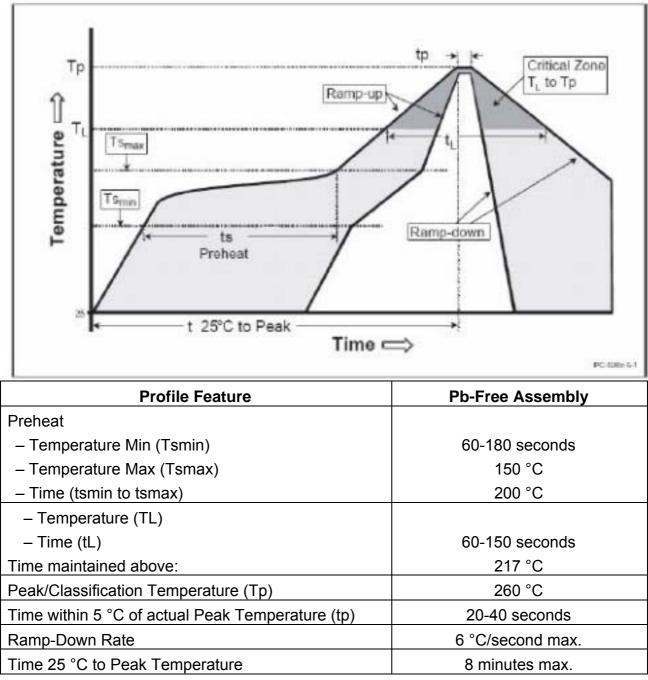
Relative Spectral Power Distribution

0.8 0.6

0.4 0.2

0.0 400





Notes

1. All temperatures refer to Solder Pad