

LED880-66-60

TECHNICAL DATA

High Power LED Array, 60 chips

LED880-66-60 is a wide viewing and extremely high output power illuminator assembled with a total of 60 high efficiency AlGaAs diode chips, mounted on a metal stem TO-66 with AIN ceramics and covered with double coated clear silicone and epoxy resin.

These devices are designed for high current operation with proper heat sinking to improver thermal conductive efficiency.

Specifications

- Structure: AlGaAs, 60 LED chips
- Peak Wavelength: typ. 880 nm
- Optical Output Power: typ. 1.5 W
- Package: TO-66 stem with AIN,

clear silicon and epoxy resin

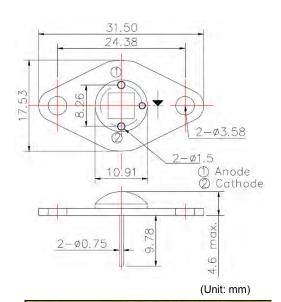
Absolute Maximum Ratings (T_c=25°C)

Item	Symbol	Value	Unit
Power Dissipation	PD	7.5	W
Forward Current	١ _F	1200	mA
Pulsed Forward Current *1	I _{FP}	6	Α
Reverse Voltage	V _R	50	V
Operating Temperature	T _{opr}	-30 +80	°C
Storage Temperature	T _{stq}	-30 +110	°C
Soldering Temperature *2	T _{sol}	265	°C

 *1 duty = 1%, pulse width = 1 µs

*² must be completed within 3 seconds

Electro-Optical Characteristics





Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Total Radiated Power	Po	I _F = 800 mA	-	1.5	-	W
Total Radiated Power	Po	I _{FP} = 5 A	-	9.0	-	W
Radiant Intensity	Ι _Ε	I _F = 800 mA	-	(400)	-	mW/sr
Axial Radiated Power *	I	I _F = 800 mA	-	0.03	-	mW/cm ²
Forward Voltage	V _F	I _F = 800 mA	-	7.5	-	V
Peak Wavelength	λ _P	I _F = 800 mA	875	885	895	nm
Half Width	Δλ	I _F = 800 mA	-	40	-	nm
Viewing Half Angle	Θ _{1/2}	I _F = 800 mA	-	±60	-	deg.
Rise Time	t _f	I _F = 800 mA	-	15	-	ns
Fall Time	t _f	I _F = 800 mA	-	10	-	ns

* L = 1m

Heat Sink is required, LED is required to keep less than 60°C

Notes

- This high power LED must be cooled!
- Do not view directly into the emitting area of the LED during operation!
- The above specifications are for reference purpose only and subjected to change without prior notice.







Typical Performance Curves

