

# LED1200-66-60

### **TECHNICAL DATA**

## High Power LED Array, 60 chips

LED1200-66-60 is a wide viewing and extremely high output power illuminator assembled with a total of 60 high efficiency InGaAsP 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: InGaAsP, 60 LED chips
- Peak Wavelength: typ. 1200 nm
- Optical Output Power: typ. 60 mW
- Package: TO-66 stem with AIN,
  - clear silicone and epoxy resin

#### Absolute Maximum Ratings (T<sub>c</sub>=25°C)

Item	Symbol	Value	Unit
Power Dissipation	PD	5.5	W
Forward Current	I <sub>F</sub>	800	mA
Pulsed Forward Current *1	I <sub>FP</sub>	5	А
Operating Temperature	T <sub>opr</sub>	-30 +80	°C
Storage Temperature	T <sub>stg</sub>	-30 +110	°C
Soldering Temperature *2	T <sub>sol</sub>	240	°C

 $^{*1}$  duty = 1%, pulse width = 1 µs

\*<sup>2</sup> must be completed within 3 seconds

#### Electro-Optical Characteristics

Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Total Radiated Power	Po	$I_{\rm F} = 600  {\rm mA}$	-	60	-	mW
Forward Voltage	V <sub>F</sub>	$I_{\rm F} = 600  {\rm mA}$	-	6.0	-	V
Reverse Voltage	V <sub>R</sub>	I <sub>R</sub> = 10 μA	30	-	-	V
Peak Wavelength	$\lambda_{P}$	$I_{\rm F} = 600  {\rm mA}$	1150	1200	1250	nm
Half Width	Δλ	$I_{\rm F} = 600  {\rm mA}$	-	60	-	nm
Viewing Half Angle	Θ <sub>1/2</sub>	$I_{\rm F} = 600  {\rm mA}$	-	±60	-	deg.
Rise Time	t <sub>f</sub>	$I_{\rm F} = 600  {\rm mA}$	-	15	-	ns
Fall Time	t <sub>f</sub>	$I_{\rm F} = 600  {\rm mA}$	-	10	-	ns

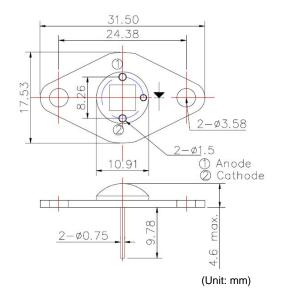
Heat Sink is required, thermal resistance <8K/W

#### 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.









InGaAsP