

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_c=25°C)

Item	Symbol	Value	Unit
Power Dissipation	PD	5.5	W
Forward Current	I _F	800	mA
Pulsed Forward Current *1	I _{FP}	5	А
Operating Temperature	T _{opr}	-30 +80	°C
Storage Temperature	T _{stg}	-30 +110	°C
Soldering Temperature *2	T _{sol}	240	°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	$I_{\rm F} = 600 {\rm mA}$	-	60	-	mW
Forward Voltage	V _F	$I_{\rm F} = 600 {\rm mA}$	-	6.0	-	V
Reverse Voltage	V _R	I _R = 10 μA	30	-	-	V
Peak Wavelength	λ_{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 _{1/2}	$I_{\rm F} = 600 {\rm mA}$	-	±60	-	deg.
Rise Time	t _f	$I_{\rm F} = 600 {\rm mA}$	-	15	-	ns
Fall Time	t _f	$I_{\rm F} = 600 {\rm mA}$	-	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