

LED690-66-60

TECHNICAL DATA

High Power LED Array, 60 chips

LED690-66-60 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.

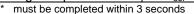
These devices are designed for high current operation with proper heat sinking to improver thermal conductive efficiency.

Specifications

- Structure: GaAs, 60 LED chips
- Peak Wavelength: typ. 690 nm
- Optical Output Power: typ. 300 mW
- Package: TO-66 stem with AIN, clear silicone and epoxy resin

Absolute Maximum Ratings (T_c=25°C)

Item	em Symbol		Unit
Power Dissipation	PD	4.0	W
Forward Current	I _F	400	mA
Pulsed Forward current *2	I _{FP}	2000	mA
Reverse Voltage	V _R	50	V
Operating Temperature	T _{opr}	-30 +80	°C
Storage Temperature	T _{stg}	-30 +110	°C
Soldering Temperature *	T _{sol}	240	°C



 $^{\ast 2}$ max puls width 1µs and max duty cycle 1%

Electro-Optical Characteristics

Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Total Radiated Power	Po	$I_{\rm F} = 600 {\rm mA}$	-	300	-	mW
Forward Voltage	V _F	I _F = 600 mA	-	9.8	-	V
Reverse Voltage	V _R	I _R = 10 μA	50	-	-	V
Peak Wavelength	λ _P	I _F = 600 mA	670	690	710	nm
Half Width	Δλ	I _F = 600 mA	-	20	-	nm
Viewing Half Angle	Θ _{1/2}	$I_{\rm F} = 600 {\rm mA}$	-	±60	-	deg.

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.





