



LED980-66-60



TECHNICAL DATA

High Power LED Array, 60 chips

GaAs

LED980-66-60 is a wide viewing and extremely high output power illuminator assembled with a total of 60 high efficiency GaAs diode chips, mounted on a metal stem TO-66 with AlN ceramics and covered with double coated clear silicone and epoxy resin. These devices are designed for high current operation with proper heat sinking to improve thermal conductive efficiency.

Specifications

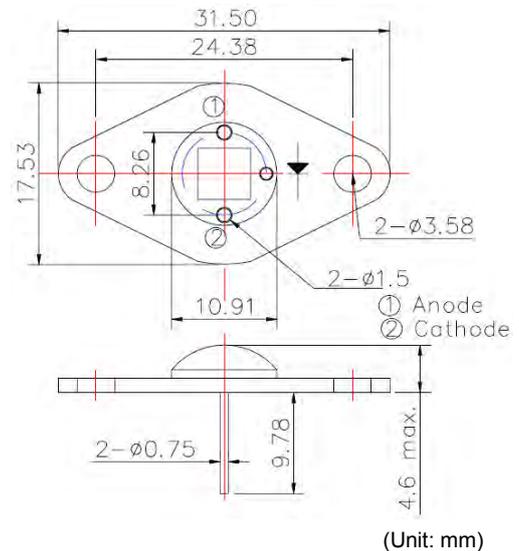
- Structure: GaAs, 60 LED chips
- Peak Wavelength: typ. 980 nm
- Optical Output Power: typ. 150 mW
- Package: TO-66 stem with AlN, epoxy resin

Absolute Maximum Ratings ($T_C=25^\circ\text{C}$)

Item	Symbol	Value	Unit
Power Dissipation	P_D	8.2	W
Forward Current	I_F	800	mA
Pulsed Forward Current * ¹	I_{FP}	3	A
Reverse Voltage	V_R	30	V
Operating Temperature	T_{opr}	-30 ... +80	$^\circ\text{C}$
Storage Temperature	T_{stg}	-30 ... +110	$^\circ\text{C}$
Soldering Temperature * ²	T_{sol}	265	$^\circ\text{C}$

*¹ duty = 1%, pulse width = 1 μs

*² must be completed within 3 seconds



Electro-Optical Characteristics

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Total Radiated Power	P_O	$I_F = 600 \text{ mA}$	-	150	-	mW
Radiant Intensity	I_E	$I_F = 600 \text{ mA}$	-	-	-	mW/sr
Forward Voltage	V_F	$I_F = 600 \text{ mA}$	-	6.3	-	V
Peak Wavelength	λ_P	$I_F = 600 \text{ mA}$	975	985	995	nm
Half Width	$\Delta\lambda$	$I_F = 600 \text{ mA}$	-	45	-	nm
Viewing Half Angle	$\Theta_{1/2}$	$I_F = 600 \text{ mA}$	-	± 60	-	deg.

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.

