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LED1070-66-60

TECHNICAL DATA



AUSTRIA

High Power LED Array, 60 chips

GaAs

LED1070-66-60 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 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. 1070 nm Optical Output Power: typ. 60 mW

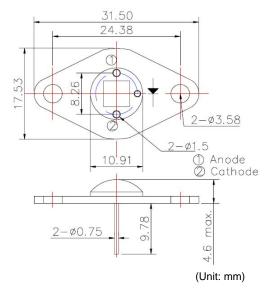
Package: TO-66 stem with AIN,

clear silicone and epoxy resin

Absolute Maximum Ratings ($T_c=25$ °C)

Item	Symbol	Value	Unit
Power Dissipation	er Dissipation P _D 6.0		W
Forward Current	I _F	800	mΑ
Reverse Voltage	V_R	50	V
Operating Temperature	T_{opr}	-30 +80	°C
Storage Temperature	T _{stq}	-30 +110	ဂိ
Soldering Temperature *	T _{sol}	240	°C

^{*} must be completed within 3 seconds



Electro-Optical Characteristics

Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Total Radiated Power	Po	$I_F = 600 \text{ mA}$	ı	60	-	mW
Forward Voltage	V_{F}	$I_F = 600 \text{ mA}$	ı	7.0	-	V
Reverse Voltage	V_R	$I_R = 10 \mu A$	30	-	-	V
Peak Wavelength	λ_{P}	$I_F = 600 \text{ mA}$	1020	1070	1120	nm
Half Width	Δλ	$I_F = 600 \text{ mA}$	ı	55	-	nm
Viewing Half Angle	Θ _{1/2}	$I_F = 600 \text{ mA}$	ı	±60	-	deg.
Rise Time	t _f	$I_F = 100 \text{ mA}$	ı	15	-	ns
Fall Time	t _f	$I_F = 100 \text{ mA}$	ı	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.



