

## ROITHNER LASERTECHNIK GIRDH

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# LED700-66-60

#### **TECHNICAL DATA**



### High Power LED Array, 60 chips

**AIGaAs** 

LED700-66-60 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 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 improver thermal conductive efficiency.

#### **Specifications**

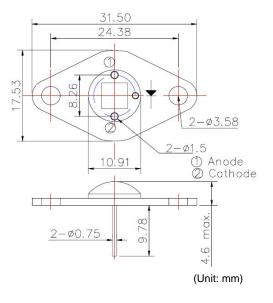
- Structure: AlGaAs, 60 LED chipsPeak Wavelength: typ. 700 nm
- Optical Output Power: typ. 300 mW
- Package: TO-66 stem with AIN, clear epoxy resin

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

Item	Symbol	Value	Unit
Power Dissipation	$P_{D}$	4.0	W
Forward Current	$I_F$	400	mΑ
Pulsed Forward Current *1	I <sub>FP</sub>	2	Α
Reverse Voltage	$V_R$	50	V
Operating Temperature	$T_{opr}$	-30 +80	°C
Storage Temperature	T <sub>stq</sub>	-30 +110	°C
Soldering Temperature *2	T <sub>sol</sub>	240	ç



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



#### **Electro-Optical Characteristics**

Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Total Radiated Power	Po	$I_F = 240 \text{ mA}$	-	300	-	mW
Forward Voltage	V <sub>F</sub>	$I_F = 240 \text{ mA}$	-	9.8	-	V
Reverse Voltage	$V_R$	$I_{R} = 10  \mu A$	50	-	-	V
Peak Wavelength	$\lambda_{P}$	$I_F = 240 \text{ mA}$	685	700	715	nm
Half Width	Δλ	$I_F = 240 \text{ mA}$	-	20	-	nm
Viewing Half Angle	Θ <sub>1/2</sub>	$I_{\rm F} = 240  {\rm mA}$	-	±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.



