LED760-66-60 epoxy lens type infrared illuminator

LED760-66-60 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 improve thermal conductive efficiency.

Features

High reliability Compact TO-66 package High output power at 760 nm

Applications

IR search light CCD lighting Night vision light source

Specifications

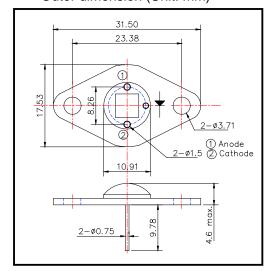
Product name IR illuminator Spec. No. LED760-66-60

Chip Material AlGaAs Peak wavelength 760 nm

Stem TO-66 stem with AIN

Lens Clear silicone and epoxy lens

Outer dimension (Unit: mm)



Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature	
Power Dissipation	PD	7.8	W	Ta = 25°C	
Forward Current	lf	750	mΑ	Ta = 25°C	
Pulse Forward Current	lfp	3	Α	Ta = 25°C	
Reverse Voltage	Vr	50	V	Ta = 25°C	
Operating Temperature	Topr	-30 ~ +80	°C		
Storage Temperature	Tstg	-30 ~ +110	°C		
Soldering Temperature	Tsol	240	ç		

Pulse Forward Current condition: Duty = 1% and Pulse Width = 1 μ s.

Soldering condition : Soldering condition must be completed within 3 seconds at 260 $^{\circ}\text{C}$

Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Total Radiated Power	Po	$I_F = 600 \text{ mA}$		1		W
Total Radiated Power	Po	IF = 3 A		4		W
Radiant Intensity	ΙE	$I_F = 600 \text{ mA}$		450		mW/sr
Forward Voltage	VF	$I_F = 600 \text{ mA}$		9.0		V
Reverse Current	lr	$V_{R} = 50 \text{ V}$			10	μA
Peak Wavelength	λ_{P}	$I_F = 600 \text{ mA}$		760		nm
Spectrum Half Width	Δλ	If = 600 mA		30		nm
Viewing Half Angle	20½	$I_F = 600 \text{ mA}$		±60		deg
Rise Time	t _r	IF = 100 mA		100		ns
Fall Time	t _f	IF = 100 mA		100		ns

Heat sink is required thermal resistance <8 K/W

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