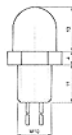


Color	Type	Technology	Case
Red	20 degrees	AlGaAs/AlGaAs	plastic lens, metal case

### Description

High-power red-LED module, double-hetero AlGaAs structure, six chips are soldered on metal stud header, fast switching time

**Outline:** H=13,0 mm (± 0,2)



### Applications

Illumination for CCD-cameras, remote control and optical communications, traffic signals, measurement systems

### Absolute Maximum Ratings

at  $T_{amb} = 25^{\circ}\text{C}$ , unless otherwise specified

Parameter	Test conditions	Symbol	Value	Unit
DC forward current	on heat sink	$I_F$	100	mA
Peak forward current	$t_p \leq 10 \mu\text{s}$ , $f \leq 500 \text{ Hz}$	$I_{FM}$	1000	mA
Reverse voltage*	$I_R = 10 \mu\text{A}$	$V_R$	20	V
Power dissipation	on heat sink ( $S \geq 50 \text{ cm}^2$ )	$P$	1.5	W
Operating temperature range		$T_{amb}$	-60 to +85	$^{\circ}\text{C}$
Storage temperature range		$T_{stg}$	-60 to +85	$^{\circ}\text{C}$
Junction temperature		$T_j$	100	$^{\circ}\text{C}$

\*Always protect the LED source against reverse currents

### Optical and Electrical Characteristics

at  $T_{amb} = 25^{\circ}\text{C}$ , unless otherwise specified

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 100 \text{ mA}$	$V_F$		13	15	V
Radiant power	$I_F = 100 \text{ mA}$	$\Phi_e$	40	50		mW
Radiant intensity	$I_F = 100 \text{ mA}$	$I_e$		180		mW/sr
Luminous flux	$I_F = 100 \text{ mA}$	$\Phi_v$		2.9		lm
Luminous intensity	$I_F = 100 \text{ mA}$	$I_v$	6	8	11	cd
Peak wavelength	$I_F = 100 \text{ mA}$	$\lambda_p$	650	660	670	nm
Spectral bandwidth at 50%	$I_F = 100 \text{ mA}$	$\Delta\lambda_{0.5}$		30		nm
Viewing angle	$I_F = 100 \text{ mA}$	$\phi$		20	30	deg
Switching time	$I_F = 100 \text{ mA}$	$t_r, t_f$		50		ns
Thermal resistance junction-case		$R_{thJC}$		10		K/W