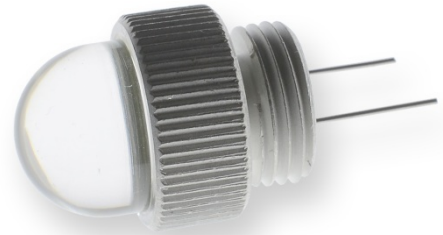




## JET-685-10

- *Single Chip Design*
- *685 nm, 88 mW*
- *Ultra Narrow Beam Angle*
- *Homogeneous Square Beam Pattern*



### Description

**JET-685-10** is a single chip LED emitter, utilizing a single high power chip die with a clear epoxy lens offering **ultra low divergence beam** of perfectly square proportions. It features a full metal submount with **M12x1 thread** for convenient installation and ideal heat dissipation

### Maximum Ratings

Parameter	Symbol	Values		Unit
		Min.	Max.	
Thermal Power	$P_T$		1600	mW
Operating Current	$I_F$		700	mA
Reverse Current (10V)	$I_R$		<50	$\mu$ A
Operating Temperature	$T_{CASE}$	- 20	+ 65	$^{\circ}$ C
Storage Temperature	$T_{STG}$	- 40	+ 85	$^{\circ}$ C
Soldering Temperature	$T_{SOLDER}$		260	$^{\circ}$ C

### Electrical Characteristics ( $T_{CASE} = 25^{\circ}$ C, $I_F = 700$ mA)

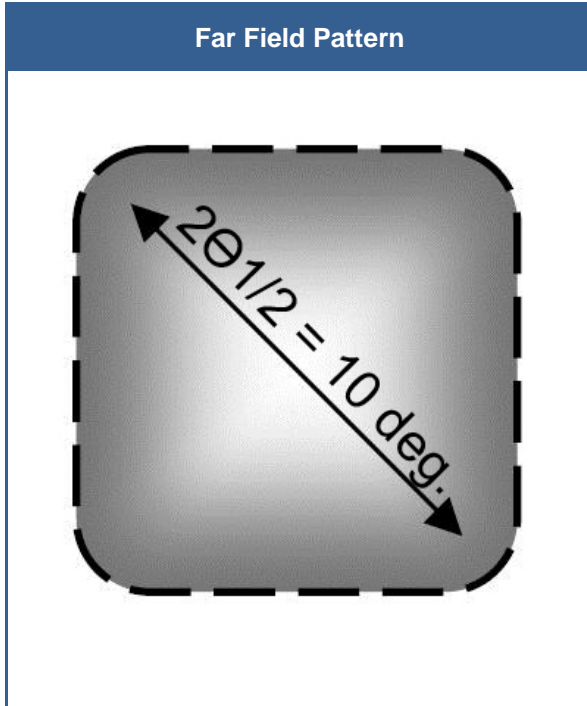
Parameter	Symbol	Min.	Values		Unit
			Typ.	Max.	
Emission Wavelength	$\lambda_{peak}$	680	685	690	nm
Optical Output Power	$P_O$		88		mW
Spectral Width (FWHM)	$\Delta\lambda$		25		nm
Operating Voltage	$V_F$		2.3		V
Beam Divergence (FWHM)	$\theta$		10		deg
Thermal resistance	$K/W$		13		
Rise/Fall time	$t_R/t_F$		30/40		ns



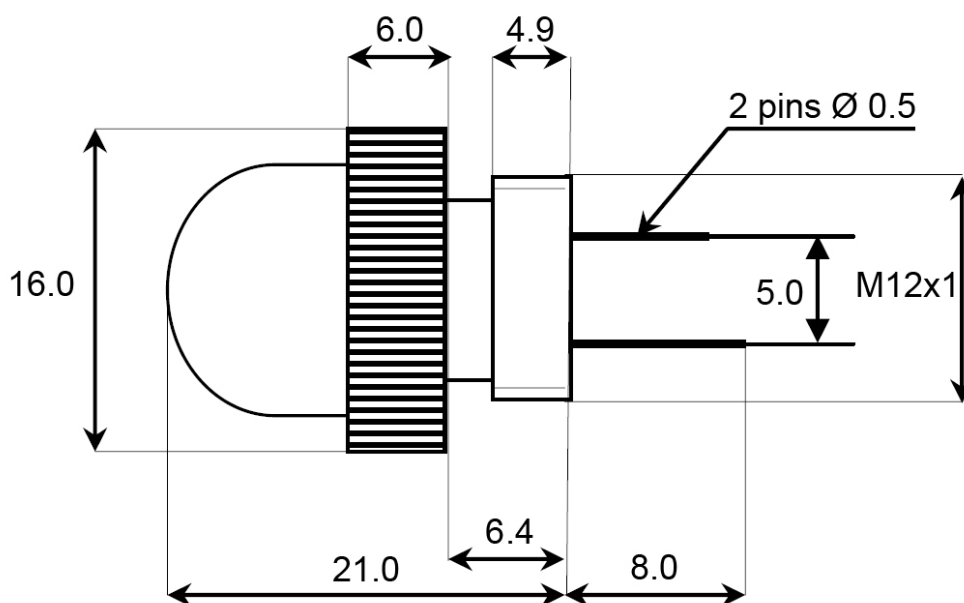


## Optical Characteristics

Far Field Pattern



## Drawing



Dimensions in mm