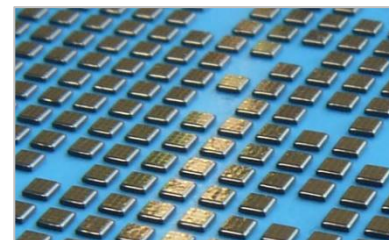




ELC-1550-27-1

- Infrared LED bare chip die
- 1550 nm, 3.7 mW, 350x350 μm
- InGaAs MQW
- n-side up
- On adhesive tape



Maximum Ratings*

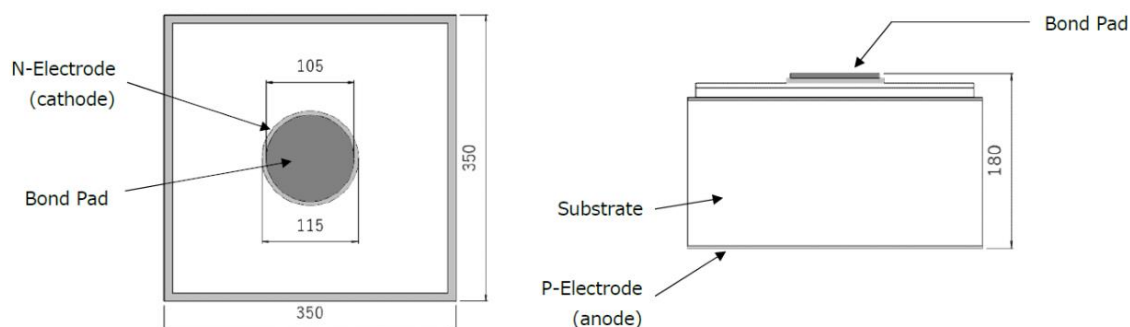
Parameter	Symbol	Values		Unit
		Min.	Max.	
Forward Current	I_F		100	mA
Reverse Voltage ($I_R=5\mu\text{A}$)	U_R		5	V
Operating Temperature	T_O	- 40	+ 85	$^{\circ}\text{C}$

* Operating close to or exceeding these parameters may damage the device.

Electro-Optical Characteristics ($T_{\text{CASE}} = 25^{\circ}\text{C}$)

Parameter	Symbol	Condition	Values			Unit
			Min.	Typ.	Max.	
Peak Wavelength	λ_p	$I_F=20\text{ mA}$	1520	1550	1580	nm
Spectral Width (FWHM)	$\Delta\lambda$	$I_F=20\text{ mA}$		100		nm
Output Power	P_O	$I_F=20\text{ mA}$		3.7		mW
		$I_F=100\text{ mA}$		11.9		mW
Forward Voltage	U_F	$I_F=20\text{ mA}$		0.9		V
		$I_F=100\text{ mA}$		1.2		V
Rise / Fall Time	T_R / T_F	$I_F=20\text{ mA}$		25 / 60		ns

Outline Dimensions



all dimensions in μm