

XSL-360-TF

- UV Through Hole LED
- 360 nm, 1.0 mW
- TO-46 Metal Can Package
- Beam Angle: ± 50°
- ESD Protection Device





Description

XSL-360-TF is an ultraviolet LED, emitting at a peak wavelength of typically 360 nm and optical output power of 1.0 mW @ 20 mA. It comes in a **TO-46 metal can package** with **flat glass window** and a beam angle of 100°, and features an **integrated Z-diode** against Electrostatic Discharge (ESD)

Maximum Ratings*

Parameter	Symbol	Va	Unit		
	eysei	Min.	Max.		
Power Dissipation	PD		100	mW	
Forward Current	lF		25	mA	
Pulse Forward Current **	IFP		100	mA	
Reverse Current	IR		85	mA	
Operating Temperature	TCASE	- 30	+ 80	°C	
Storage Temperature	Tstg	- 30	+ 100	°C	
Lead Solder Temperature (t _{max.} 3s)	T _{SLD}		+ 260	°C	

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

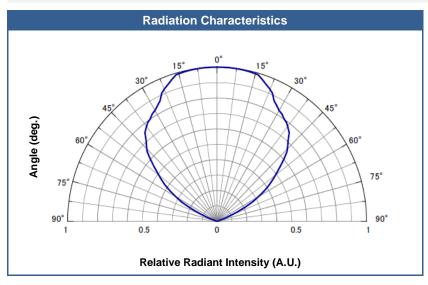
** duty cycle = 10 %, pulse width = 100 μ s

Electro-Optical Characteristics (T_{CASE} = 25°C)

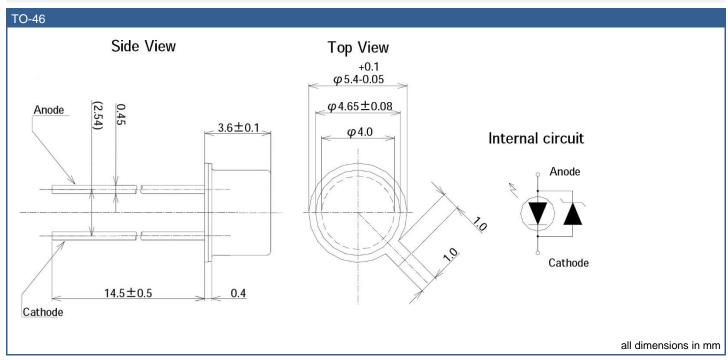
Parameter	Symbol	Conditions	Min.	Values Typ.	Max.	Unit
Peak Wavelength	λ_P	I _F =20 mA	357	360	365	nm
Half Width	λ_{Δ}	I _F =20 mA		15		nm
Forward Voltage	UF	I _F =20 mA	3.2	3.6	4.2	V
Total Radiated Power	Po	I _F =20 mA	0.8		1.2	mW
Beam Angle	20 1/2	I⊧=20 mA		100		deg.



Typical Performance Curves



Outline Dimensions





General Notes

Soldering

- Do avoid overheating of the LED
- Do avoid electrostatic discharge (ESD)
- Do avoid mechanical stress, shock, and vibration
- Do only use non-corrosive flux
- Do not apply current to the LED until it has cooled down to room temperature after soldering

Cleaning

- · Cleaning with isopropyl alcohol, propanol, or ethyl alcohol is recommended
- DO NOT USE acetone, chloroseen, trichloroethylene, or MKS
- DO NOT USE ultrasonic cleaners

Static Electricity

- LEDs are sensitive to electrostatic discharge (ESD).
- Precautions against ESD must be taken when handling or operating these LEDs
- Surge voltage or electrostatic discharge can result in complete failure of the LED.

Radiation

- During operation these LEDs do emit light, which could be hazardous to skin and eyes, and may cause cancer.
- · Do avoid exposure to the emitted light. Protective glasses if needed
- It is further advised to attach a warning label on products/systems.

Operation

- Do only operate LEDs with a current source.
- Running these LEDs from a voltage source will result in complete failure of the device.
- Current of a LED is an exponential function of the voltage across it. Usage of current regulated drive circuits is mandatory.

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