

ELD-700-524

- Infrared Light Emitting Diode
- 700 nm, 10 mW
- Viewing angle: 20°
- Package: 5 mm clear epoxy

Description





rev 2.0 09.12.2015

ELD-700-524 is a AlGaAs based Light Emitting Diode with a typical peak wavelength of 700 nm and an optical output power of 10 mW. It is mounted on a lead frame and encapsulated in a standard clear 5 mm epoxy package.

Maximum Ratings (T_{CASE}=25°C)

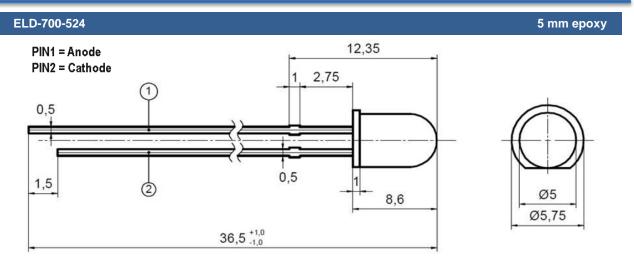
Parameter	Symbol	Va	Unit	
Farameter	Symbol	Min.	Max.	Unit
Power Dissipation	PD			mW
Forward Current	IF		50	mA
Peak Forward Current	I _{FP}		100	mA
Operating Temperature	T _{CASE}	- 20	+ 80	°C
Storage Temperature	T _{STG}	- 40	+ 100	°C
Junction Temperature	T_J			°C
Lead Soldering Temperature	T _{SLD}		+ 260	°C

Optical and Electrical Characteristics (T_{CASE}=25°C)

Parameter	Symbol	Conditions	Min.	Values Typ.	Max.	Unit
Peak Wavelength	λ_P	I _F =50mA	690	700	710	nm
Spectral Half Width (FWHM)	$\Delta \lambda_{0,5}$	I _F =50mA		30		nm
Radiated Power	${oldsymbol{\Phi}_E}$	I _F =50mA	8	10		mW
Radiated Intensity	I_E	I _F =50mA	40	70		mW/sr
Forward Voltage	VF	I _F =50mA		2	2.4	V
Reverse Voltage	V _R	I _R =10µA	5			V
Viewing Angle	φ	I _F =50mA		20		deg.
Rise Time	t _R	I _F =50mA		40		ns
Fall Time	t _F	I _F =50mA		40		ns



Outline Dimensions



All Dimensions in mm

Precautions

Cautions:

DO NOT look directly into the emitted light or look through the optical system. To prevent in adequate exposure of the radiation, wear protective glasses.

Operation:

- · Check your connection circuits before turning on the LED
- Mind the LED polarity: LED anode is marked by long pin
- Do only operate LEDs with a current source

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 only cut the leads at room temperature with an ESD protected tool
- · Do not solder closer than 3 mm from base of the header
- Do form leads prior to soldering
- · Do not impose mechanical stress on the header when forming the leads
- Do not apply current to the LED until it has cooled down to room temperature after soldering

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 device.



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