



# ELS-740-994

## TECHNICAL DATA

### Infrared LED, SMD

Radiation	Type	Technology	Case
Infrared	SMD	AlGaAs/AlGaAs	TOPLED

	<b>Description</b> High-power, high speed LED in TOPLED® PLCC-2 package, compact design allows for easy circuit board mounting and assembling of arrays
	<b>Applications</b> Optical communications, remote control, light barriers, measurement applications and security systems, automation

### Absolute Maximum Ratings

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

Parameter	Test conditions	Symbol	Value	Unit
DC forward current		$I_F$	50	mA
Peak forward current	$t_p \leq 50 \mu\text{s}, t_p/T \leq 0.5$	$I_{FM}$	100	mA
Surge forward current	$t_p \leq 10 \mu\text{s}$	$I_{SFM}$	1000	mA
Power dissipation		$P$	125	mW
Operating temperature range		$T_{amb}$	-40 to +85	°C
Storage temperature range		$T_{stg}$	-40 to +90	°C

### Electrical and Optical Characteristics

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

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 50 \text{ mA}$	$V_F$		2.0	2.5	V
Reverse voltage	$I_F = 100 \mu\text{A}$	$V_R$	5			V
Radiant power	$I_F = 50 \text{ mA}$	$\Phi_e$	5.0	6.5		mW
Peak wavelength	$I_F = 50 \text{ mA}$	$\lambda_p$	730	740	750	nm
Spectral bandwidth at 50%	$I_F = 50 \text{ mA}$	$\Delta\lambda_{0.5}$		30		nm
Viewing angle	$I_F = 50 \text{ mA}$	$\varphi$		120		deg.
Switching time	$I_F = 50 \text{ mA}$	$t_r, t_f$		30		ns