

Radiation	Type	Technology	Case
Infrared	SMD	AlGaAs/AlGaAs	TOPLED

<p style="text-align: center;">ELC-67</p>	<p>Description</p> <p>High-power, high speed LED in TOPLED® PLCC-2 package, compact design allows for easy circuit board mounting and assembling of arrays</p>
	<p>Applications</p> <p>Optical communications, remote control, light barriers, measurement applications and security systems, automation</p>

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	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	-40 to +90	$^{\circ}\text{C}$

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	$I_F = 50 \text{ mA}$	Φ_e	5.0	6.5		mW
Peak wavelength	$I_F = 50 \text{ mA}$	λ_p	730	740	750	nm
Spectral bandwidth at 50%	$I_F = 50 \text{ mA}$	$\Delta\lambda_{0.5}$		30		nm
Viewing angle	$I_F = 50 \text{ mA}$	φ		120		deg.
Switching time	$I_F = 50 \text{ mA}$	t_r, t_f		30		ns

Note: All measurements carried out with EPIGAP equipment