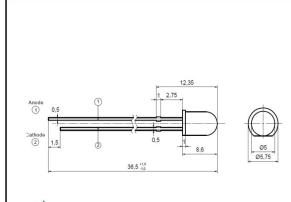
ELD-770-524

V3 06/14

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Radiation	Туре	Technology	Case	
Infrared	DDH	AlGaAs/AlGaAs	5 mm plastic lens	



Description

High-power, high-speed LED with narrow beam angle and high reliability, housing with standoff leads

Note: Special packages without standoff available on request

Applications

Optical communications, safety equipment, automation



Maximum Ratings

 T_{amb} = 25°C, unless otherwise specified

Parameter	Test conditions	Symbol	Value	Unit
Forward current (DC)		I _F	50	mA
Peak forward current	$(t_P \le 50 \ \mu s, \ t_P/T = 1/2)$	I _{FM}	100	mA
Power dissipation		P_D	120	mW
Operating temperature range		T _{amb}	-20 to +100	°C
Storage temperature range		T _{stg}	-55 to +100	°C
Junction temperature		T_J	100	°C
Lead soldering temperature	< 5s, 3.0 mm from case	T _{sol}	260	°C

Optical and Electrical Characteristics

 T_{amb} = 25°C, unless otherwise specified

Parameter	Test conditions	Symbol	Min	Тур	Max	Unit
Forward voltage	I _F = 20 mA	V_{F}		1.7	2.0	V
Forward voltage ¹	I _F = 50 mA	V_{F}		2,0		V
Reverse voltage	I _R = 100 μA	V_R	5			V
Radiant power	I _F = 20 mA	Φ_{e}	4	6		mW
Radiant power ¹	I _F = 50 mA	Φ_{e}		14		mW
Radiant intensity	I _F = 20 mA	I _e	24	30		mW/sr
Radiant intensity ¹	I _F = 50 mA	I_{e}		70		mW/sr
Peak wavelength	I _F = 20 mA	λ_{p}	760	770	780	nm
Spectral bandwidth at 50%	I _F = 20 mA	$\Delta\lambda_{0.5}$		30		nm
Viewing angle	I _F = 20 mA	φ		20		deg.
Switching time	I _F = 20 mA	$t_{r,} t_{f}$		35		ns

¹for information only

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