LED lamp ELD-840-515

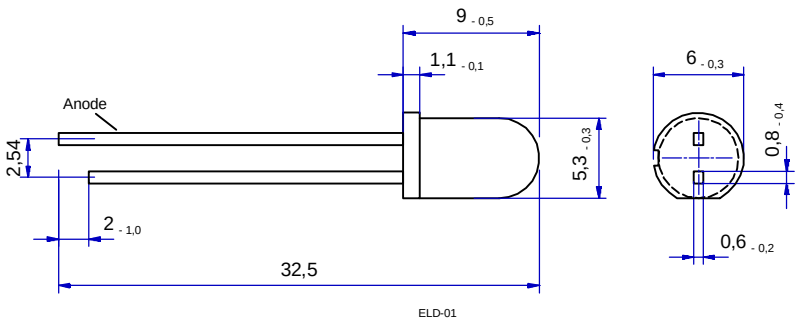
Radiation	Type	Technology	Case
Infrared	ELD-840-515	AlGaAs/AlGaAs	5 mm plastic lens

Description

High-power, high-speed, double heterostructure with removed substrate, chip with frame contact, housing without standoff leads

Applications

Optical communications, safety equipment



Note: Special packages with standoff available on request

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

Parameter	Test ñonditions	Symbol	Value	Unit
Forward current (DC)		I_F	100	mA
Peak forward current	($t_P \leq 50$ µs, $t_P/T = 1/2$)	I_{FM}	200	mA
Surge forward current	($t_P \leq 10$ µs)	I_{FSM}	2000	mA
Reverse voltage	I_R = 100 µA	V_R	5	V
Operating temperature range		T_{amb}	-20 to +100	°C
Storage temperature range		T_{stg}	-55 to +100	°C
Mass		m	0.33	g

Optical and Electrical Characteristics

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

Parameter	Test ñonditions	Symbol	Min	Typ	Max	Unit
Forward voltage	I_F = 100 mA	V_F		1.7	2.1	V
Radiant power	I_F = 100 mA	$Ö_e$		15		mW
Radiant intensity	I_F = 100 mA	I_e	80	90	100	mW/sr
Peak wavelength	I_F = 100 mA	λ_p		840		nm
Spectral bandwidth at 50%	I_F = 100 mA	$\Delta\lambda_{0.5}$		35		nm
Viewing angle		φ		11		deg.
Switching time	I_F = 100 mA	t_r, t_f		65		ns

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