

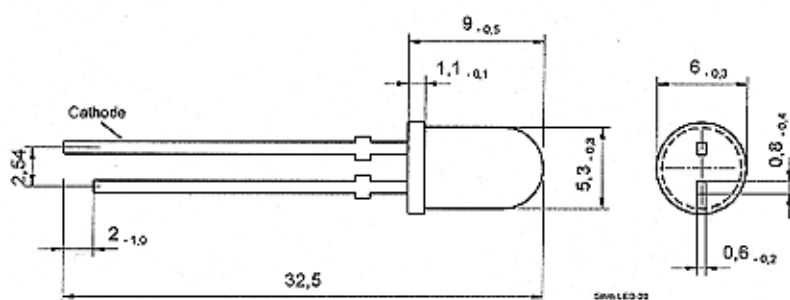
Radiation	Type	Technology	Case
Infrared	ELD-740-524-6	AlGaAs/AlGaAs	5 mm plastic lens

Description

High-power, high-speed, double heterostructure with removed substrate, with standoff leads

Applications

Optical communications, safety equipment



Note: Special packages without standoff and/or having reverse polarity are available on request

Maximum Ratings

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

Parameter	Test conditions	Symbol	Value	Unit
Forward current (DC)		I_F	50	mA
Peak forward current	$(t_p \leq 50 \mu\text{s}, t_p/T = 1/2)$	I_{FM}	100	mA
Surge forward current	$(t_p \leq 10 \mu\text{s})$	I_{FSM}	1000	mA
Reverse voltage	$I_R = 100 \mu\text{A}$	V_R	5	V
Operating temperature range		T_{amb}	-20 to +100	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	-55 to +100	$^{\circ}\text{C}$
Mass		m	0.33	g

Optical and Electrical Characteristics

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

Parameter	Test Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 20 \text{ mA}$	V_F		1.85	2.1	V
Forward voltage	$I_F = 50 \text{ mA}$	V_F		2.1	2.3	V
Radiant power	$I_F = 50 \text{ mA}$	Φ_e		10		mW
Radiant intensity	$I_F = 50 \text{ mA}$	I_e	50	60	70	mW/sr
Peak wavelength	$I_F = 50 \text{ mA}$	λ_p		740		nm
Spectral bandwidth at 50%	$I_F = 50 \text{ mA}$	$\Delta\lambda_{0.5}$		35		nm
Viewing angle		φ		20		deg.
Switching time	$I_F = 50 \text{ mA}$	t_r, t_f		20/20		ns