

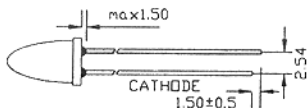
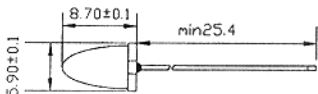
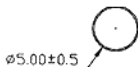
Radiation	Type	Technology	Case
Infrared	ELD-700-524-3	AlGaAs/AlGaAs	5 mm plastic lens

**Description**

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

**Applications**

Optical communications, safety equipment



Note: Special packages without standoff available on request

**Maximum Ratings**

$T_{\text{amb}} = 25^{\circ}\text{C}$ , 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		$T_{\text{amb}}$	-20 to +100	$^{\circ}\text{C}$
Storage temperature range		$T_{\text{stg}}$	-55 to +100	$^{\circ}\text{C}$

**Optical and Electrical Characteristics**

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

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 50 \text{ mA}$	$V_F$		1.9		V
Radiant power	$I_F = 50 \text{ mA}$	$\Phi_e$		10		mW
Peak wavelength	$I_F = 50 \text{ mA}$	$\lambda_p$		700		nm
Spectral bandwidth at 50%	$I_F = 50 \text{ mA}$	$\Delta\lambda_{0.5}$		45		nm
Viewing angle		$\phi$		8		deg.
Switching time	$I_F = 50 \text{ mA}$	$t_r, t_f$		20/25		ns