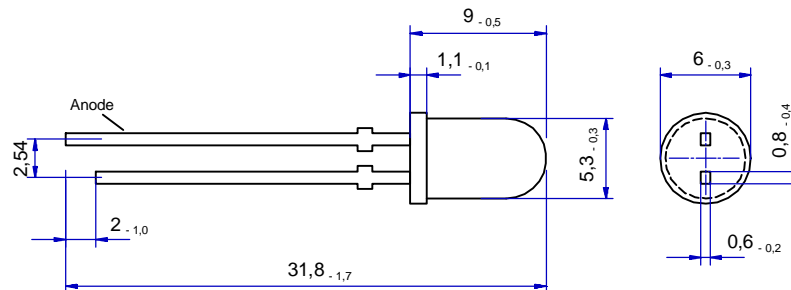


Color	Type	Technology	Case
Red	ELD-640-523-1	AllnGaP/GaAs	5 mm plastic lens



Note: Special packages without standoff are available on request

### Maximum Ratings

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

Parameter	Test conditions	Symbol	Value	Unit
Forward current (DC)		$I_F$	30	mA
Peak forward current	$(t_p \leq 50 \mu\text{s}, t_p/T = 1/2)$	$I_{FM}$	100	mA
Reverse voltage	$I_R = 10 \mu\text{A}$	$V_R$	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	$I_F = 20 \text{ mA}$	$V_F$		2.05	2.6	V
Luminous intensity	$I_F = 20 \text{ mA}$	$I_v$		1100		mcd
Luminous flux	$I_F = 20 \text{ mA}$	$\Phi_v$		260		mlm
Radiant power	$I_F = 20 \text{ mA}$	$\ddot{O}_e$		2.0		mW
Peak wavelength	$I_F = 20 \text{ mA}$	$\lambda_p$		644		nm
Dominant wavelength	$I_F = 20 \text{ mA}$	$\lambda_d$	626	630	639	nm
Spectral bandwidth at 50%	$I_F = 20 \text{ mA}$	$\Delta\lambda_{0.5}$		18		nm
Viewing angle		$\ddot{o}$		20		deg.