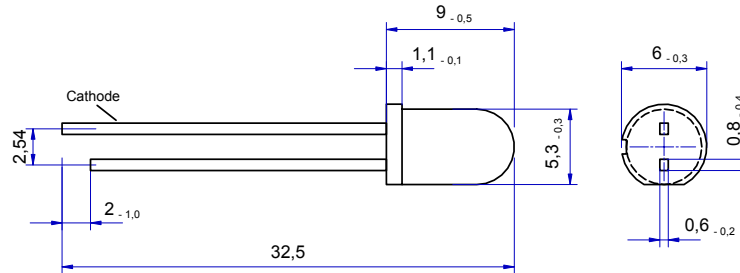


LED lamp

ELD-670-554-2

Color	Type	Technology	Case
Red	ELD-670-554-2	AllnGaP/GaAs	5 mm plastic lens



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	$(t_p \leq 10 \mu\text{s}, T = 10 \text{ms})$	I_{FM}	500	mA
Reverse voltage	$I_R = 10 \mu\text{A}$	V_R	5	V
Power dissipation		P_D	120	mW
Operating temperature range		T_{amb}	-20 to +80	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	-30 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		2.25		V
Luminous intensity	$I_F = 20 \text{mA}$	I_v	130	145	160	mcd
Luminous flux	$I_F = 20 \text{mA}$	Φ_v		140		mlm
Radiant power	$I_F = 20 \text{mA}$	Φ_e	3.7	3.9	4.1	mW
Peak wavelength	$I_F = 20 \text{mA}$	λ_p		670	676	nm
Dominant wavelength	$I_F = 20 \text{mA}$	λ_d		640		nm
Spectral bandwidth at 50%	$I_F = 20 \text{mA}$	$\Delta\lambda_{0.5}$		18	26	nm
Viewing angle		φ	45	50	55	deg.
Switching time	$I_F = 20 \text{mA}$	t_r, t_f		11/10		ns

rev.12/01