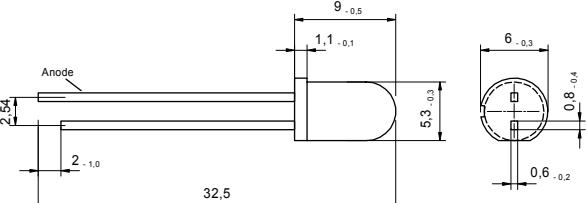


Radiation	Type	Technology	Case
Red	Standard	AllInGaP/GaAs	5 mm plastic lens

		Description
		Reliable high-speed red LED in standard 5 mm package, with lens for optimal beam focusing, housing without standoff leads
		Applications
Optical communications, safety equipment, automation, optical sensors		

Maximum Ratings

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

Parameter	Test conditions	Symbol	Value	Unit
Forward current (DC)		I_F	50	mA
Peak forward current	($t_P \leq 50 \mu s$, $t_P/T = 1/2$)	I_{FM}	100	mA
Operating temperature range		T_{amb}	-20 to +85	°C
Storage temperature range		T_{stg}	-55 to +100	°C
Junction temperature		T_J	100	°C

Optical and Electrical Characteristics

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

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 20 \text{ mA}$	V_F		2.1	2.5	V
Reverse voltage	$I_R = 10 \mu A$	V_F	5			V
Radiant power	$I_F = 20 \text{ mA}$	Φ_e	2	3		mW
Luminous intensity	$I_F = 20 \text{ mA}$	I_v	1350	1900		mcd
Peak wavelength	$I_F = 20 \text{ mA}$	λ_p	620	630	640	nm
Viewing angle	$I_F = 20 \text{ mA}$	φ		20		deg.
Switching time	$I_F = 20 \text{ mA}$	t_r, t_f		20		ns

*measured after 30s current flow

Note: All measurements carried out on EPIGAP equipment

We reserve the right to make changes to improve technical design and may do so without further notice.
Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

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