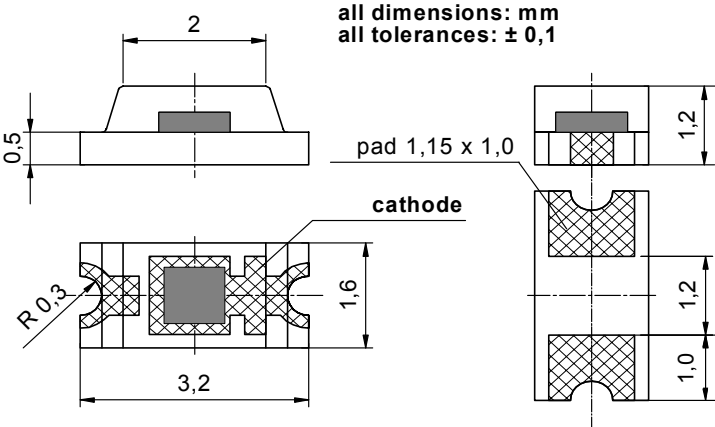


Radiation	Type	Technology	Case
Red	SMD	AlInGaP/AlGaAs	SMD 1206

 all dimensions: mm all tolerances: $\pm 0,1$ pad 1,15 x 1,0 cathode R0,3 3,2 1,6 2 0,5 1,2 1,2 1,0	Description High-power, high speed LED in standard SMD package, compact design allows for easy circuit board mounting and assembling of arrays Applications Illumination, indicators, measurement applications and security systems, automation
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Absolute Maximum Ratings

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

Parameter	Test conditions	Symbol	Value	Unit
DC forward current		I_F	50	mA
Peak forward current	$t_p \leq 100 \mu\text{s}$, $t_p/T \leq 0.1$	I_{FM}	100	mA
Power dissipation		P	110	mW
Operating temperature range		T_{amb}	-20 to +85	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	-55 to +100	$^{\circ}\text{C}$

Electrical and Optical Characteristics

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

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 50 \text{ mA}$	V_F		1,9	2,2	V
Reverse voltage	$I_F = 100 \mu\text{A}$	V_R	5			V
Radiant power	$I_F = 50 \text{ mA}$	Φ_e	3,3	4,3		mW
Peak wavelength	$I_F = 50 \text{ mA}$	λ_p	625	635	645	nm
Spectral bandwidth at 50%	$I_F = 50 \text{ mA}$	$\Delta\lambda_{0.5}$		18		nm
Viewing angle	$I_F = 50 \text{ mA}$	φ		120		deg.
Switching time	$I_F = 50 \text{ mA}$	t_r, t_f		10		ns

Note: All measurements carried out with *EPIGAP* equipment