

Radiation	Type	Technology	Case
Infrared	SMD	AlGaAs/AlGaAs	SMD 1206

all dimensions: mm  
all tolerances: ± 0,1

**Description**

High-power, high speed LED in standard SMD package, compact design allows for easy circuit board mounting and assembling of arrays

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**Applications**

Optical communications, remote control, light barriers, measurement applications and security systems, automation

**Absolute Maximum Ratings**

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

Parameter	Test conditions	Symbol	Value	Unit
DC forward current		$I_F$	100	mA
Peak forward current	$t_p \leq 50 \mu s, t_p/T \leq 0.5$	$I_{FM}$	200	mA
Surge forward current	$t_p \leq 10 \mu s$	$I_{SFM}$	2000	mA
Power dissipation		P	200	mW
Operating temperature range		$T_{amb}$	-20 to +85	$^{\circ}C$
Storage temperature range		$T_{stg}$	-55 to +100	$^{\circ}C$

**Electrical and Optical Characteristics**

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

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 100 \text{ mA}$	$V_F$		1,5	2,0	V
Reverse voltage	$I_F = 100 \mu A$	$V_R$	5			V
Radiant power	$I_F = 100 \text{ mA}$	$\Phi_e$	15	20		mW
Peak wavelength	$I_F = 100 \text{ mA}$	$\lambda_p$	865	875	890	nm
Spectral bandwidth at 50%	$I_F = 100 \text{ mA}$	$\Delta\lambda_{0,5}$		45		nm
Viewing angle	$I_F = 100 \text{ mA}$	$\varphi$		120		deg.
Switching time	$I_F = 100 \text{ mA}$	$t_r, t_f$		25		ns

Note: All measurements carried out with *EPIGAP* equipment