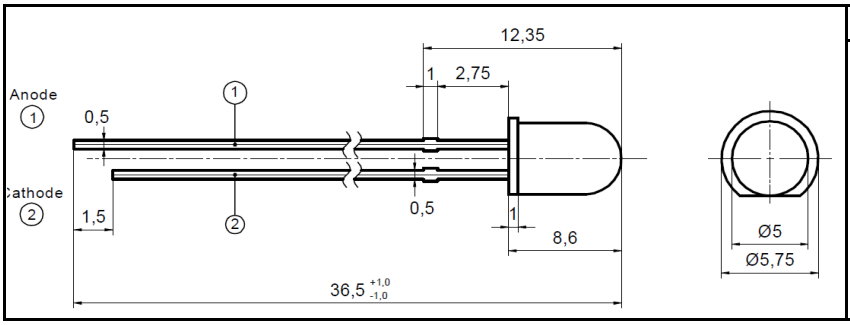
EPIGAP OPTRONIC GMBH

Product Data Sheet

LED Lamp Infra Red EOLD-880-525-3

Rev. 01 aus 2011

Radiation	Type	Case
Infra Red	DDH	5mm plastic lens



Description:

High-power, high-speed infrared LED in standard 5 mm package , with lens for narrow beam focusing

Maximum Ratings

T_{amb}= 25℃, unless otherwise specified

Parameter	Test Conditions	Symbol	Value	Unit
Forward Current		I_F	150	mA
Peak forward current	($t_p \leq 50$ µs, t_p /T = ½)	I_{FM}	200	mA
Power dissipation		P_D	200	mW
Operating temp. range		T_{amb}	-20 to +80	℃
Storage temp. range		T_{stg}	-40 to +100	℃
Lead soldering temp.	t< 5s, 3mm from case	T_{slg}	260	℃
Junction temperature		T_J	100	℃

Optical and Electrical Characteristics

T_{amb}= 25℃, unless otherwise specified

Parameter	Symbol	Conditions	Min	typ	max	Unit
Forward voltage	V_F	I_F= 20mA		1.4	1.8	V
Forward voltage	V_F	I_F= 100mA		1.6	2	V
Reverse voltage	V_R	I_R= 10µA	5			V
Radiant Power	Φ_e	I_F= 20mA	7	11		mW
Radiant Power	Φ_e	I_F= 100mA		45		mW
Peak wavelength	λ_p	I_F= 20mA	865	880	895	nm
Spectral bandwidth at 50%	$\Delta\lambda_{0,5}$	I_F= 20mA		50		nm
Viewing angle	φ	I_F= 20mA		20		deg.
Switching time	t_r, t_f	I_F= 20mA		10/ 20		ns

RoHS COMPLIANT Pb Pb-Free

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