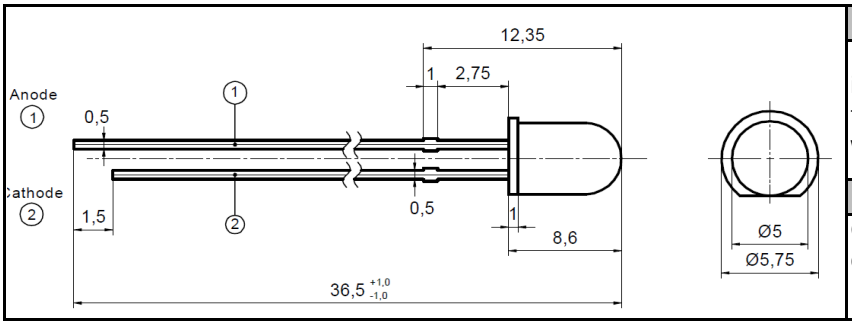
EPIGAP OPTRONIC GMBH

Product Data Sheet

LED Lamp Infra Red EOLD-760-524 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, housing with standoff leads

Application:

Optical communications, safety equipment, automation

Maximum Ratings

T_{amb}= 25℃, unless otherwise specified

Parameter	Test Conditions	Symbol	Value	Unit
Forward Current		I_F	50	mA
Peak forward current	(t_p ≤ 50 µs, t_p /T = ½)	I_{FM}	100	mA
Power dissipation		P_D	120	mW
Operating temp. range		T_{amb}	-20 to +80	℃
Storage temp. range		T_{stg}	-55 to +100	℃
Junction temperature		T_J	100	℃
Lead soldering temp.	t< 5s, 3mm from case	T_{slg}	260	℃

Optical and Electrical Characteristics

T_{amb}= 25℃, unless otherwise specified

Parameter	Symbol	Conditions	Min	typ	max	Unit
Forward voltage	V_F	I_F= 20mA		1.7	2.0	V
Forward voltage*	V_F	I_F= 50mA		2.0		V
Reverse voltage	V_R	I_R= 100µA	5			V
Radiant Power	Φ_e	I_F= 20mA	4	6		mW
Radiant Power*	Φ_e	I_F= 50mA		14		mW
Radiant intensity	I_e	I_F= 20mA	24	30		mW/sr
Radiant intensity*	I_e	I_F= 50mA		70		mW/sr
Peak wavelength	λ_p	I_F= 20mA	750	760	775	nm
Spectral bandwidth at 50%	$\Delta\lambda_{0,5}$	I_F= 20mA		30		nm
Viewing angle	φ	I_F= 20mA		20		deg.
Switching time	t_r, t_f	I_F= 20mA		35		ns

RoHS COMPLIANT Pb Pb-Free

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