


Product Data Sheet
LED Lamp Infra Red
EOLD-880-525

Rev. 01 aus 2011

Radiation	Type	Case
Infra Red	DDH	5mm plastic lens

Description:	
<p>High-power, high-speed infrared LED in standard 5 mm package , with lens for narrow beam focusing, housing with standoff leads</p>	

Maximum Ratings

 T_{amb}= 25°C, unless otherwise specified

Parameter	Test Conditions	Symbol	Value	Unit
Forward Current		I _F	150	mA
Peak forward current	(t _p ≤ 50 µs, t _p /T = ½)	I _{FM}	200	mA
Power dissipation		P _D	200	mW
Operating temp. range		T _{amb}	-20 to +80	°C
Storage temp. range		T _{stg}	-40 to +100	°C
Lead soldering temp.	t< 5s, 3mm from case	T _{sld}	260	°C
Junction temperature		T _J	100	°C

Optical and Electrical Characteristics

 T_{amb}= 25°C, 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 = 100mA	865	880	895	nm
Spectral bandwidth at 50%	Δλ _{0,5}	I _F = 100mA		50		nm
Viewing angle	φ	I _F = 100mA		20		deg.
Switching time	t _r , t _f	I _F = 100mA		10/ 20		ns