



Product Data Sheet

LED Lamp Infra Red

EOLD-720-524

Rev. 01 aus 2011

Radiation	Type	Case
Infra Red	DDH	5mm plastic lens

	<p>Description:</p> <p>High-power, high-speed infrared LED in standard 5 mm package , with lens for narrow beam focusing, housing without standoff leads</p>
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Maximum Ratings

T_{amb}= 25°C, 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 = 1/2)	I _{FM}	100	mA
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 _{slg}	260	°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 = 50mA		2.0	2.4	V
Reverse voltage	V _R	I _R = 10μA	5			V
Radiant Power	Φ _e	I _F = 50mA	8	10		mW
Radiant intensity	I _e	I _F = 50mA	40	70		mW/sr
Peak wavelength	λ _p	I _F = 50mA	710	720	730	nm
Spectral bandwidth at 50%	Δλ _{0,5}	I _F = 50mA		30		nm
Viewing angle	φ	I _F = 50mA		20		deg.
Switching time	t _r , t _f	I _F = 50mA		40		ns