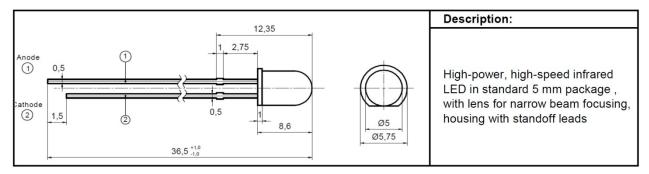


ELD-780-525

v1 11/2014

Radiation	Туре	Case
Infra Red	DDH	5mm plastic lens



Maximum Ratings

T_{amb}= 25℃, unless otherwise specified

Parameter	Test Conditions	Symbol	Value	Unit
Forward Current		I _F	150	mA
Peak forward current	$(t_p \le 50 \ \mu s, t_p \ /T = \frac{1}{2})$	I _{FM}	200	mA
Power dissipation		PD	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 _{slg}	260	C
Junction temperature		TJ	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	1.6	V
Forward voltage	V _F	I _F = 100mA		1.6	2.0	V
Reverse voltage	V _R	Ι _R = 10μΑ	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	765	780	790	nm
Spectral bandwidth at 50%	$\Delta \lambda_{0,5}$	I _F = 20mA		40		nm
Viewing angle	φ	I _F = 20mA		20		deg.
Switching time	t _r , t _f	I _F = 20mA		10/ 20		ns



We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

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