Standard LED

Red Emitting Colour



Absolute Maximum Ratings at $T_a = 25$ °C

Parameter	Maximum	Unit	
Power Dissipation	80	mW	
Peak Forward Current (1/10 Duty Cycle, 0.1 ms Pulse Width)	100	mA	
Continuous Forward Current	20		
Derating Linear From 50°C	0.4	mA / °C	
Reverse Voltage	5	V	
Operating Temperature Range	-25°C to +80°C		
Storage Temperature Range	-40°C to +100°C		
Lead Soldering Temperature (4 mm (0.157) Inches from Body)	260°C for 5 s		

Electrical Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test Condition
Luminous Intensity	I _v		40		mcd	I _f = 20 mA (Note 1)
Viewing Angle	2θ _{1/2}		25		Deg	(Note 2)
Peak Emission Wavelength	λр		640		nm	I _f = 20 mA
Dominant Wavelength	λd		635		nm	I _f = 20 mA (Note 3)
Spectral Line Half-Width	Δλ		25		nm	I _f = 20 mA
Forward Voltage	V _f		2	2.5	V	I _f = 20 mA
Reverse Current	I _R	-	-	100	μΑ	V _R = 5 V

Notes:

- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve
- 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity
- 3. The dominant wavelength (λd) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the colour of the device

