

Specification For Approval

Description □ 10mm □□□

Absolute Maximum Rating at Ta=25°C

Parameter	MAX.	Unit\
Power Dissipation	100	mW
Peak Forward Current (1/10 Duty. Cycle. 0.1ms Pulse width)	100	mA
Continuous Forward Current	35	mA
Derating Linear From 50°C	0.4	mA/°C
Reverse Voltage	5	V
Operating Temperature Range	-40°C to +80°C	
Storage Temperature Range	-40°C to +80°C	
Lead Soldering Temperature (4mm(,157") From Body)	260°C for 5 Seconds	

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit.	Test Condition
Luminous Intensity	I _v	10	15	20	mcd	I _F =20mA (Note 1)
Viewing Angle	2θ _{1/2}	--	30	--	Deg	(Note 2)
Peak Emission Wavelength	λ _P	--	--	--	nm	
Dominant Wavelength	λ _d	635	640	645	nm	(Note 3)
Spectral Line Half-Width	Δλ	--	20	--	nm	
Forward Voltage	V _f	1.8	2.0	2.2	V	V _R =5V
Reverse Current	I _r			10	μA	I _F =20mA

Note:

1. Luminous Intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. θ_{1/2} is the off-axis angle at which the Luminous Intensity is half the axial luminous intensity.
3. The dominant Wavelength(λ_d) **is derived from** the CIE chromaticity diagram and represents the single Wavelength which defines the color of the device.