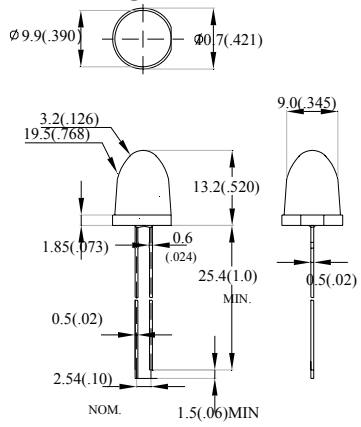
Data Sheet For 10mm Super Bright Red LED Angle 25°

Features
- Standard T-1 Diameter Type Package.
- General Purpose Leads
- Reliable and Rugged

Absolute Maximum Ratings at Ta=25°C

Parameter	MAX.	Unit
Power Dissipation	50	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Wide)	100	mA
Continuous Forward Current	20	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 3 Seconds	

Package Dimensions



Electrical Optical Characteristics at Ta=25°C

Part Number	Lens color	Source Color	Dominant Wavelength λd/ nm I_F = 20mA (Note8)			Luminous Intensity Iv / mcd I_F = 20mA (Note 5)			Forward Voltage / V I_F = 20mA			Viewing Angle / Deg (Note 6)
			Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	
NC1003AHR1-25Q	Water Clear	Red	620	---	630	18000	23400	---	---	2.2	2.8	25 °
Reverse Voltage = 5V						Reverse Current = 50μA						

Notes:
1. All dimensions are in millimeter.
2. Tolerance of measurement is ±0.25mm(.01") unless others otherwise noted.
3. Protruded resin under flanges is 1.0mm(0.4") max.
4. Lead spacing is measured where the leads emerge from the package.
5. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve. Tolerance of measurement of luminous intensity is ±15%
6. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity. It use many parameters that correspond to the CIE 1931 2° Tolerance of measurement of angle is ±10 degree
7. Caution in ESD: Static Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED.All devices, equipment and machinery must be properly grounded.
8. The dominant wavelength λd is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
9. Specifications are subject to change without notice.