Standard LED

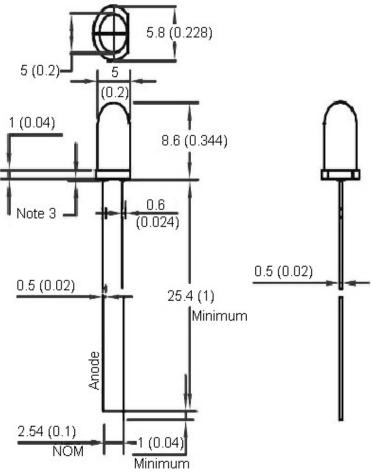
Red Emitting Colour



Features:

- High intensity
- Standard T-1 3/4 diameter package
- General purpose leads
- Reliable and rugged

Package Dimensions:



Dimensions: Millimetres (Inches)

Specification Table

Chip Material	Lens Colour	Source Colour	Part Number
AlGaAs	Diffused	Red	MV5754A

Notes:

- 1. Tolerance is ±0.25 mm (0.01") unless otherwise noted
- 2. Protruded resin under flange is 1 mm (0.04") maximum
- 3. Lead spacing is measured where the leads emerge from the package



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)		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	μA	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

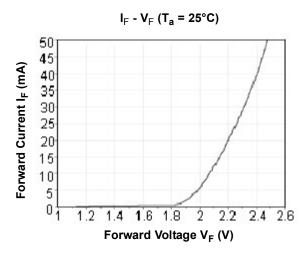


Standard LED

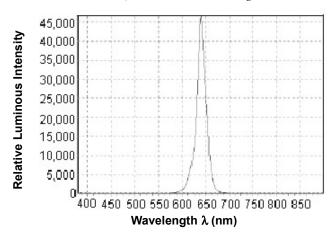
Red Emitting Colour

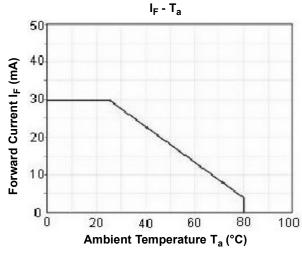


Typical Characteristics

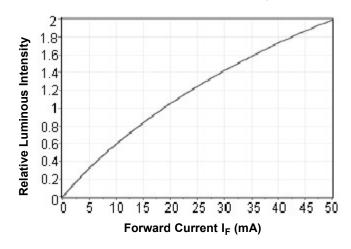


Wavelength Characteristics ($T_a = 25$ °C)

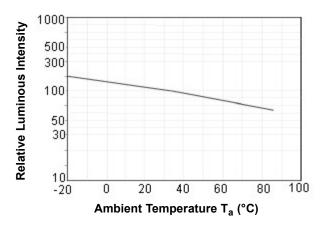




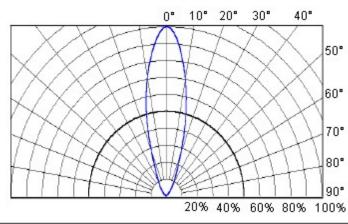
Relative Luminous Intensity - I_F (T_a = 25°C)



Relative Luminous Intensity - Ta



Directive Characteristics (T_a = 25°C)



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