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MV5754A

### ΕN

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#### FR

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# Standard LED

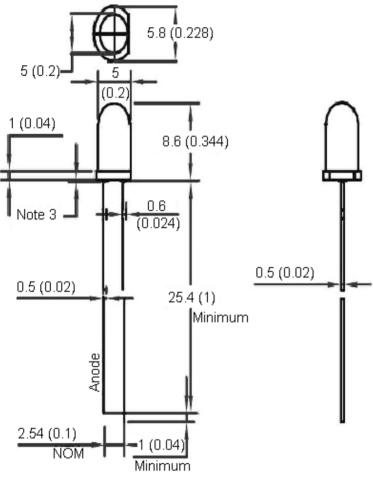
# **Red Emitting Colour**



### Features:

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

### **Package Dimensions:**



Dimensions : Millimetres (Inches)

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### **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<sub>a</sub> = 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	ious 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<sub>a</sub> = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test Condition
Luminous Intensity	I <sub>v</sub>		40		mcd	I <sub>f</sub> = 20 mA (Note 1)
Viewing Angle	2θ <sub>1/2</sub>		25		Deg	(Note 2)
Peak Emission Wavelength	λр		640		nm	I <sub>f</sub> = 20 mA
Dominant Wavelength	λd		635		nm	I <sub>f</sub> = 20 mA (Note 3)
Spectral Line Half-Width	Δλ		25		nm	I <sub>f</sub> = 20 mA
Forward Voltage	V <sub>f</sub>		2	2.5	V	I <sub>f</sub> = 20 mA
Reverse Current	I <sub>R</sub>	-	-	100	μΑ	V <sub>R</sub> = 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 ( $\lambda d$ ) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the colour of the device

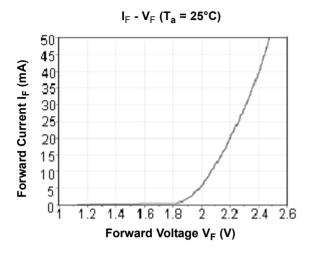


# Standard LED

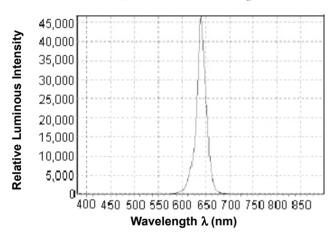
## **Red Emitting Colour**

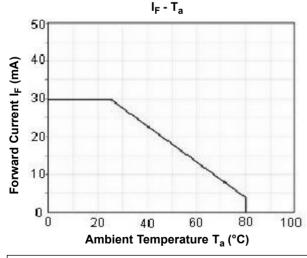


## **Typical Characteristics**

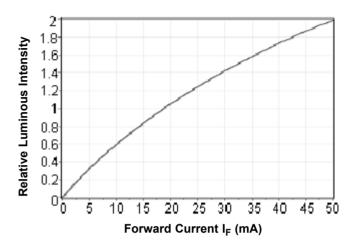


Wavelength Characteristics (T<sub>a</sub> = 25°C)

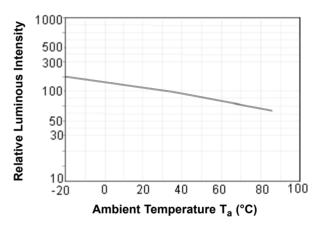




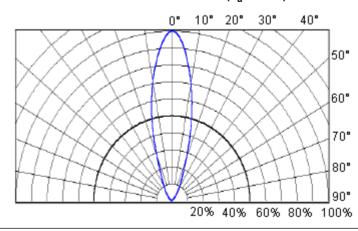
Relative Luminous Intensity -  $I_F$  ( $T_a = 25$ °C)



Relative Luminous Intensity - Ta



Directive Characteristics (T<sub>a</sub> = 25°C)



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