

Standard LED

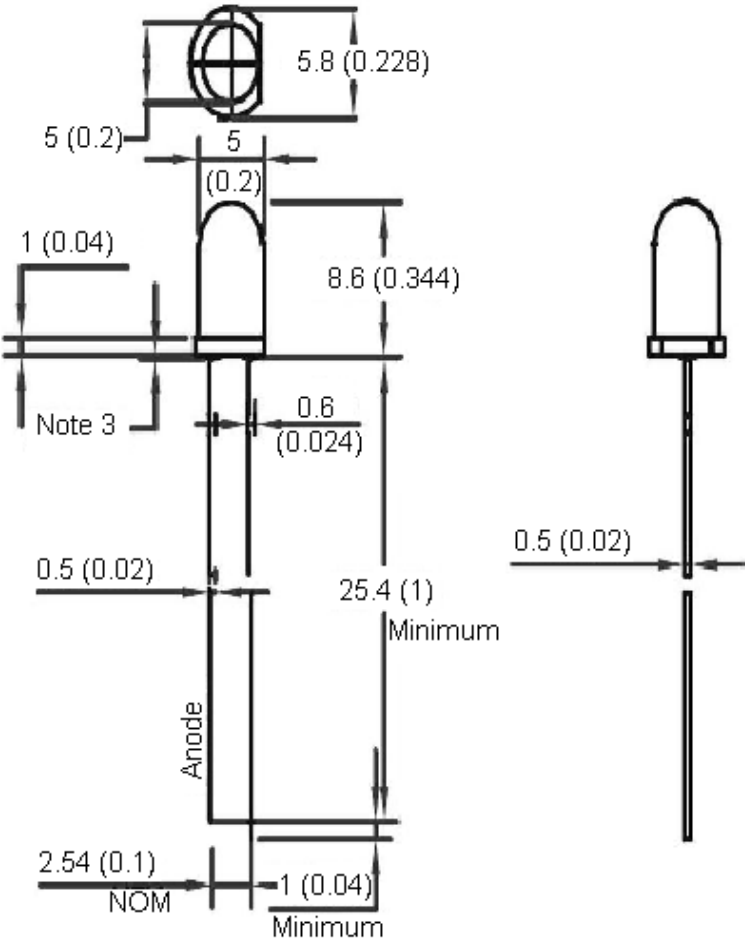


Red Emitting Colour

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



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Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

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 / $^\circ\text{C}$
Reverse Voltage	5	V
Operating Temperature Range	-25 $^\circ\text{C}$ to +80 $^\circ\text{C}$	
Storage Temperature Range	-40 $^\circ\text{C}$ to +100 $^\circ\text{C}$	
Lead Soldering Temperature (4 mm (0.157) Inches from Body)	260 $^\circ\text{C}$ for 5 s	

Electrical Optical Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test Condition
Luminous Intensity	I_v		40		mcd	$I_f = 20\text{ mA}$ (Note 1)
Viewing Angle	$2\theta_{1/2}$		25		Deg	(Note 2)
Peak Emission Wavelength	λ_p		640		nm	$I_f = 20\text{ mA}$
Dominant Wavelength	λ_d		635		nm	$I_f = 20\text{ mA}$ (Note 3)
Spectral Line Half-Width	$\Delta\lambda$		25		nm	$I_f = 20\text{ mA}$
Forward Voltage	V_f		2	2.5	V	$I_f = 20\text{ mA}$
Reverse Current	I_R	-	-	100	μA	$V_R = 5\text{ V}$

Notes:

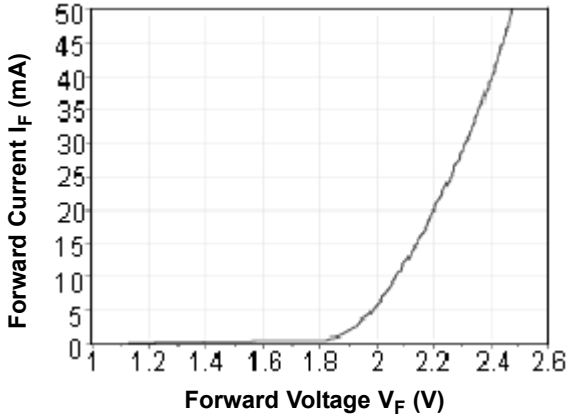
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity
3. The dominant wavelength (λ_d) is derived from the CIE chromaticity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

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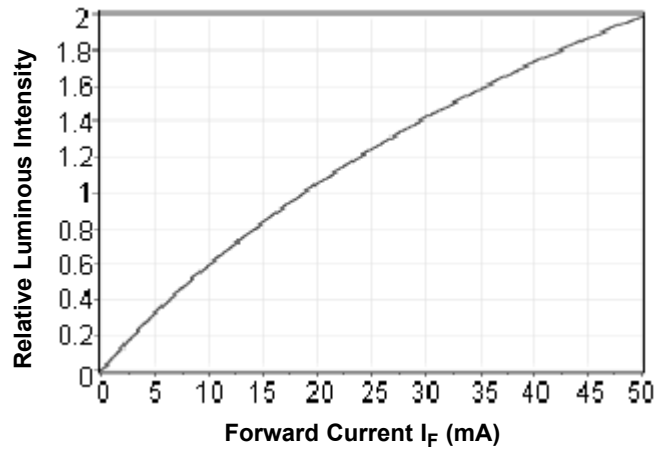
Red Emitting Colour

Typical Characteristics

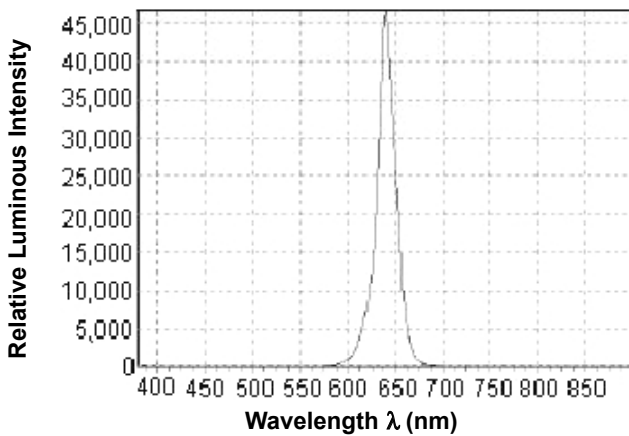
$I_F - V_F (T_a = 25^\circ\text{C})$



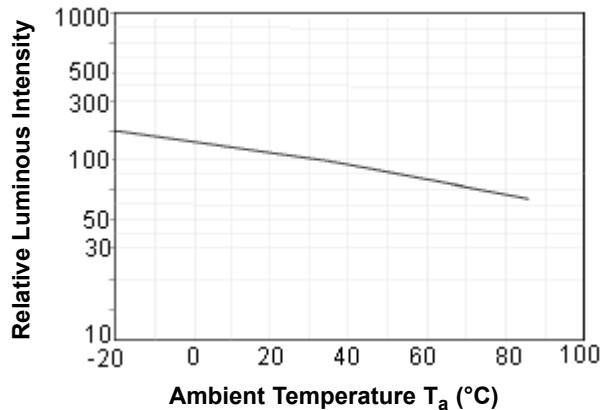
Relative Luminous Intensity - $I_F (T_a = 25^\circ\text{C})$



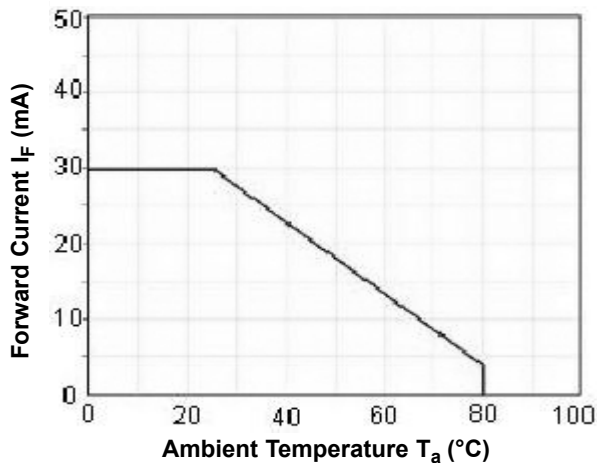
Wavelength Characteristics ($T_a = 25^\circ\text{C}$)



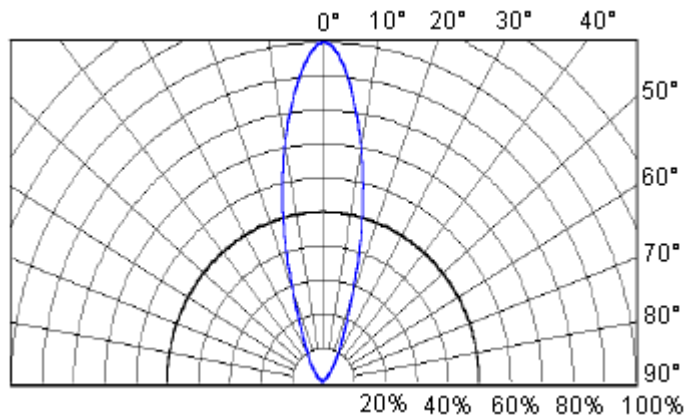
Relative Luminous Intensity - T_a



$I_F - T_a$



Directive Characteristics ($T_a = 25^\circ\text{C}$)



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