

RoHS
Compliant



Features

- Narrow viewing angle.

Applications

- Automotive: backlighting in dashboard and switch
- Telecommunication: indicator and backlighting in telephone and fax
- Flat backlight for LCD switch and symbol

Specifications

Dimensions	: 1.6mm × 0.8mm × 0.95mm.
Emitted colour	: Red
Dice	: (InGaAlP)
Lens colour	: Water clear

Absolute Maximum Ratings: (T _A = 25°C)			
Parameter	Symbol	Value	Unit
Power Dissipation	P _D	62	mW
Forward current	I _F	25	mA
Peak Forward Current*1	I _{FP}	100	
Reverse Voltage	V _R	5	V
Operating Temperature	T _{OPR}	-40°C to +85°C	
Storage Temperature	T _{STG}		

Notes:

*1: Pulse width≤0.1ms, Duty cycles≤1/10

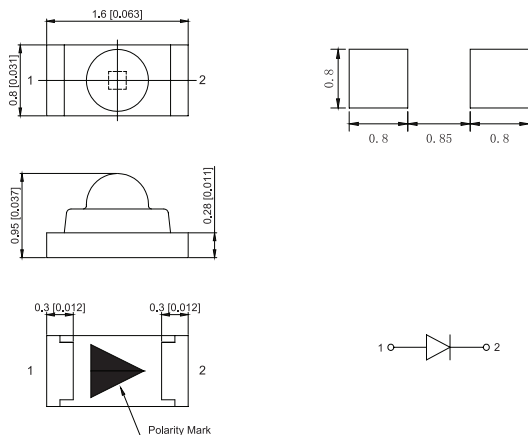
Optical / Electrical Characteristics at T _A = 25°C						
Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Forward Voltage (one circuit)	V _F	I _F =20mA	1.8	-	2.6	V
Reverse Current (one circuit)	I _R	V _R =5V	-	-	10	uA
Dominate Wavelength	λ _D	I _F =20mA	625	-	637	nm
Luminous Intensity	I _V		295	-	845	mcd
Viewing Angle	2θ1/2		-	30	-	Deg.

Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity or dominate wavelength), the typical accuracy of the sorting process is as follows:

- Dominate Wavelength:±1nm
- Luminous Intensity: (plus/minus 15)%
- Forward Voltage: plus/minus 0.1 * V

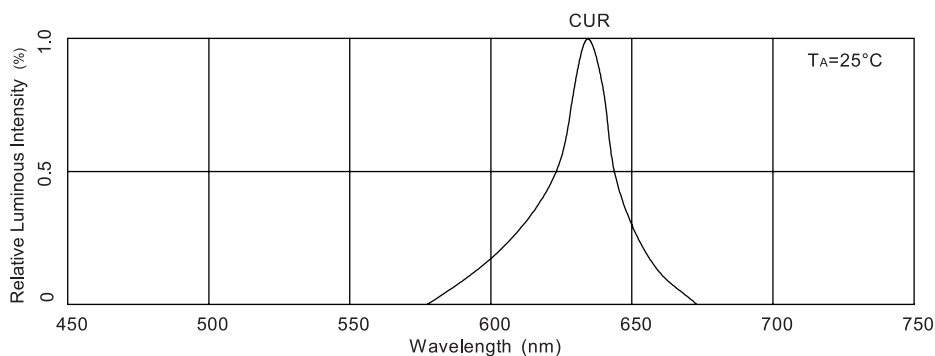
Package Outlines



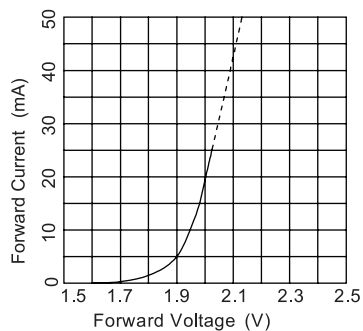
Dimensions : Millimetres (Inches)

Typical Electrical/Optical Characteristics Curves

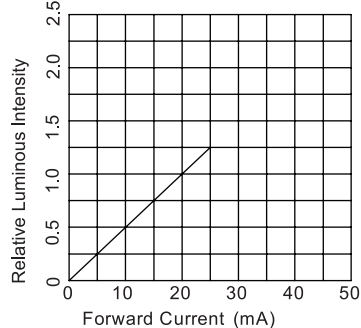
Relative Spectral Distribution



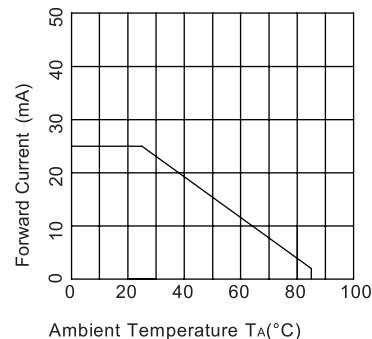
Volt-Ampere Characteristics
VF-IF



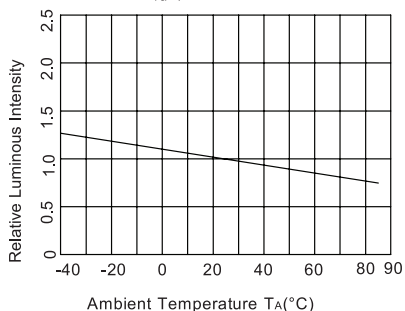
Forward Current VS. Relative Intensity
IF-IV



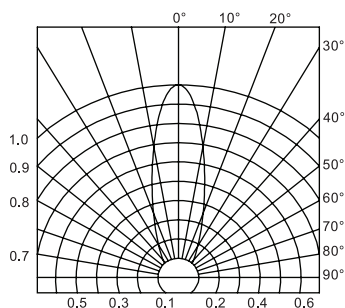
Ambient Temperature VS. Forward Current
T_A-IF



Ambient Temperature VS. Relative Intensity
Ta-IV



Radiation Diagram



Part Number Table

Description	Part Number
Single Color LED, 0603, 30D, Red	MP017027

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