LED, 5mm





Electrical/Optical characteristics at T_A = 25°C

Parameter	Symbol	Min.	Туре	Max.	Unit	Test
Luminous Intensity	IV	8	10	15	mcd	IF = 20mA
Viewing Angle	2θ½		100		Deg.	IF = 20mA
Peak Emission Wavelength	λр		635		nm	
Dominant Wavelength	λD		627		nm	
Spectral Line Half-Width	Δλ		35		nm	
Forward Voltage	VF	1.9	2.1	2.6	V	IF = 20mA
Power Dissipation	Pd			85	mW	
Peak Forward Current (Duty1/10 @ 1kHz)	IF (Peak)			100	mA	
Recommended Operating Current	IF (Rec)		20		mA	

Absolute Maximum Ratings : $(T_A = 25^{\circ}C)$

Reverse Voltage : 5 Volt

Reverse Current : 10μ A (V_R = 5V) Operating Temperature Range : -40° C to $+85^{\circ}$ C Storage Temperature Range : -40° C to $+100^{\circ}$ C

Lead Soldering Temperature Range {1.6mm (1/16 inch) from body} : 260°C For 5 Seconds

Reliability test For LED Lamps

Item	Test Conditions	Test Time/Cycle	Sample Size	Ac/Re
DC Operating Life	Temperature : 25°C IF : 20mA		76 Pcs.	0/1
High Temperature High Humidity	Temperature : 85°C 85%RH	1,000 Hrs.		
High Temperature Storage	Temperature : 100°C			
Low Temperature Storage	Temperature : -40°C			
Temperature Cycling	85°C~ 25°C~-35°C 15min~ 5min~ 15min	15 Cycles		
Thermal Shock	85°C~ 25°C~-10°C 5min~ 10sec ~ 5min	15 Cycles		
Solder Heat	Temperature : 260°C ±5°C	10 Sec.		

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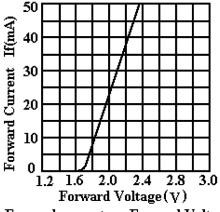


LED, 5mm

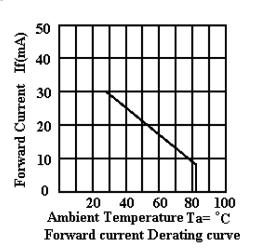


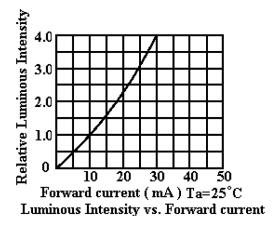
Typical Electro-Optical Characteristics Curves

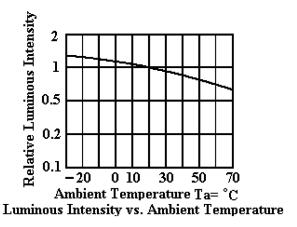
Orange (GaAsP/GaP \(\lambda\)P=635nm)

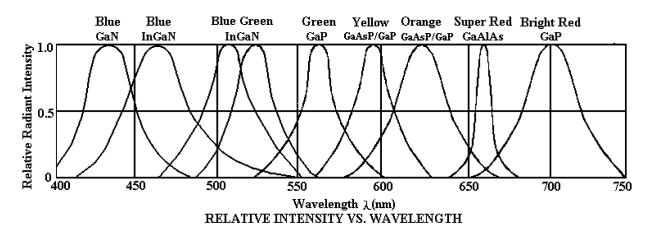


Forward current vs. Forward Voltage







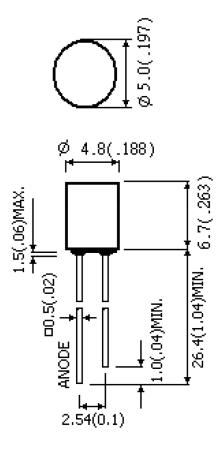




LED, 5mm



Dimensions:



Dimensions: Inches (Millimetres)

All tolerance shall be ±0.01 inch (0.25mm)

Part Number Table

Description	Part Number		
LED, 5mm, Orange-Red, 10mcd, 635nm	MCL433MD		

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