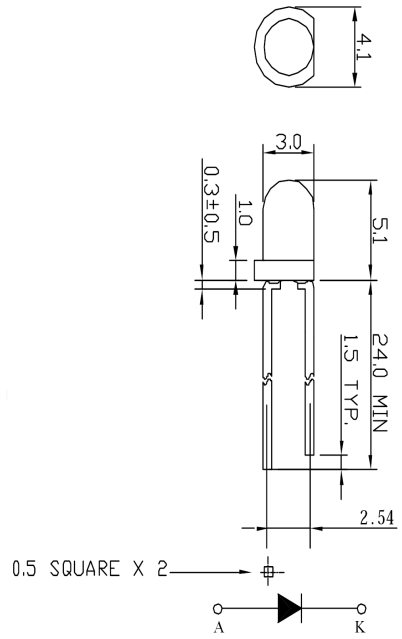
Marktech Optoelectronics

Ultra Bright White 3mm LED

MT0303−WH



Features

High Intensity
Reliable Rugged
Low Current Requirements
IC Compatible

Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Unit
Forward Current	I_F	20	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	80.00	mW
Operating Temperature	T_{opr}	−25 ~ +85	°C
Storage Temperature	T_{stg}	−40 ~ +100	°C
Soldering Temperature	T_{sol}	260	°C
Soldering Time	−	for 5 sec. max	−

Notes:

1.All dimensions are in millimeters.

2.Tolerance is ±0.25mm unless otherwise noted.

Opto−Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V_F	I_F=20mA	−	3.20	4.00	V
Reverse Current	I_R	V_R=5V	−	−	50	μ A
Luminous Intensity	I_V	I_F=20mA	1800.00	3000.00	−	mcd
Viewing Angle	$2\theta^{1/2}$	−	−	28°	−	deg.
Peak Wavelength	λp	I_F=20mA	−	465	−	nm
Dominant Wavelength	λd	I_F=20mA	−	X=.30, Y=.31	−	nm
Spectral Line Half Width	Δλ	I_F=20mA	−	0	−	nm

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MT0303−WH Graphs

Typical Electrical/Optical Characteristic Curves
(25℃ Ambient Temperature Unless Otherwise Noted)

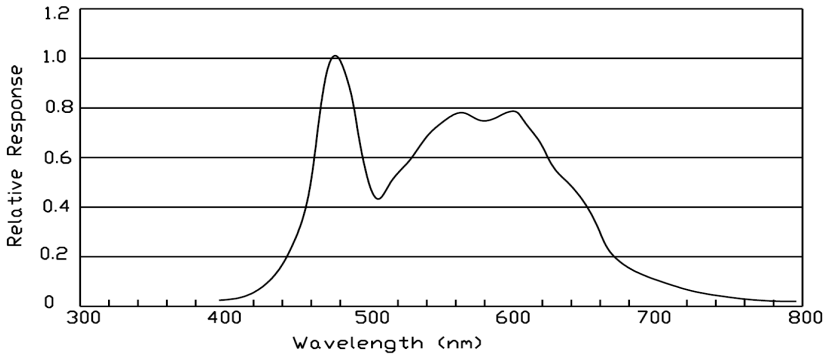
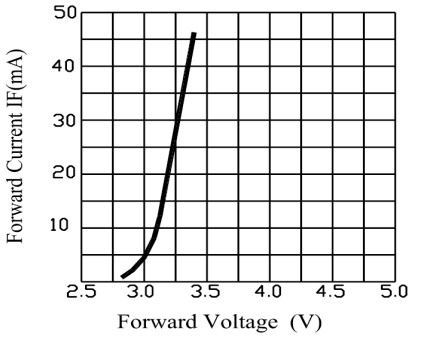
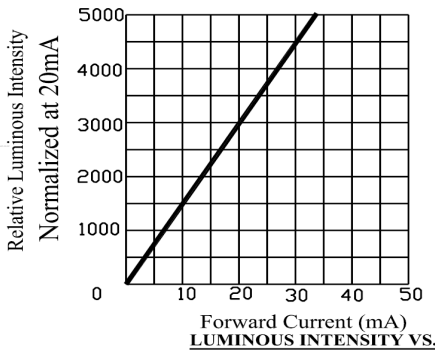


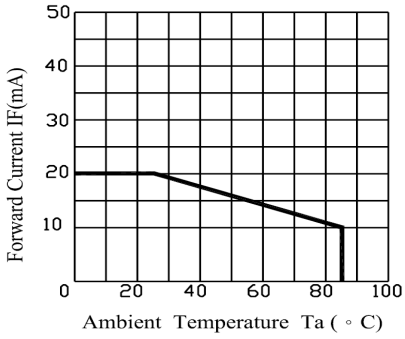
Fig.1 WHITE LED Spectrum VS. WAVELENGTH



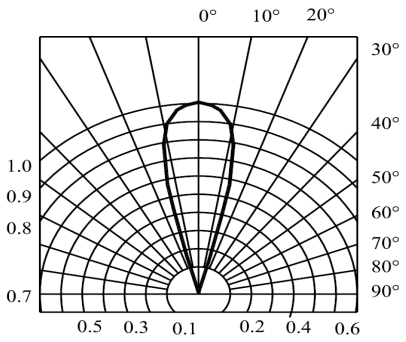
FORWARD CURRENT VS.APPLIED VOLTAGE



LUMINOUS INTENSITY VS. FORWARD CURRENT



FORWARD CURRENT VS. AMBIENT TEMPERATURE



RELATIVE INTENSITY VS. WAVELENGTH

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