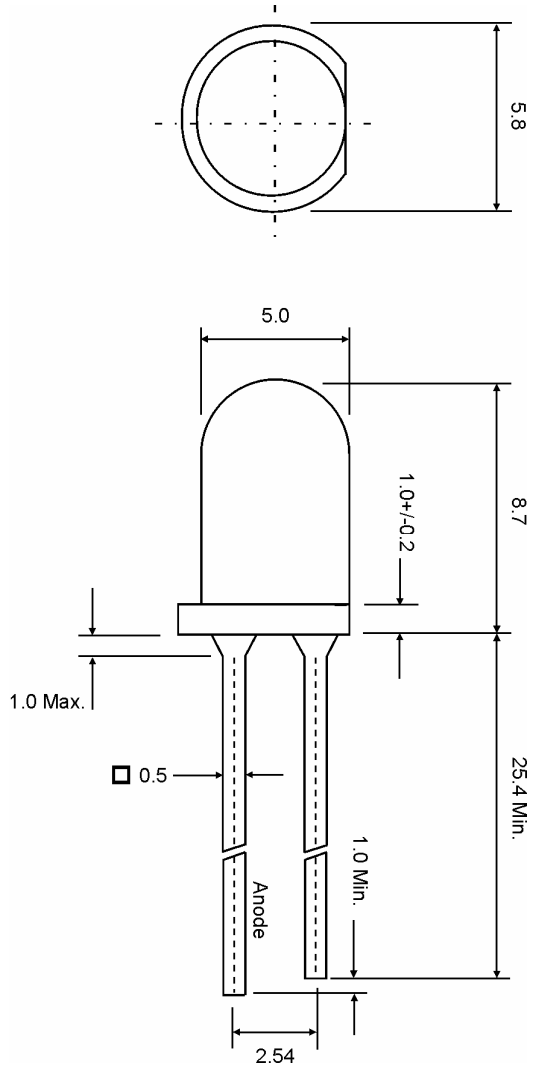
LED LAMPS SPECIFICATION

Part No. : MT-333UBD/W50/465-5/N8N9

Package Dimensions



Characters

Standard 5mm Round

Reliable and Rugged

Low Power Consumption

Low Working Current

Functions

Power Indicator

Back-Lighting

Lighting Guide

Notes

1. All Dimensions are in millimeters
2. Tolerance is +/- 0.25mm unless otherwise noted
3. Protruded resin under flange is 1.0mm max.
4. Lead measured where the leads emerge from the package
5. ESD Class (Mil-Std-883d Method 3015.7) based on Human Body Mode : 500V (Ave.)

Chip Material	Emitting Color	Lens Color
InGaN	Blue	Blue Diffused

ISO 9001:2000 Certificate : 04100 21209

Electro-Optical Characteristics (Ta=25˚C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	Iv	1300		2000	mcd	I_F = 20mA
Viewing Angle *	2θ 1/2		20		Deg.	
Dominant Wavelength	λ d	465		470	nm	
Spectrum Radiation Bandwidth	Δλ		21		nm	
Forward Voltage	V_F	3.0	3.3	3.6	V	
Recommended Working Current	R_{IF}	10	20	25	mA	

* Viewing Angle is defined as the off-axis angle where the Luminous Intensity is 1/2 the peak intensity.

Absolute Maximum Ratings (Ta=25˚C)

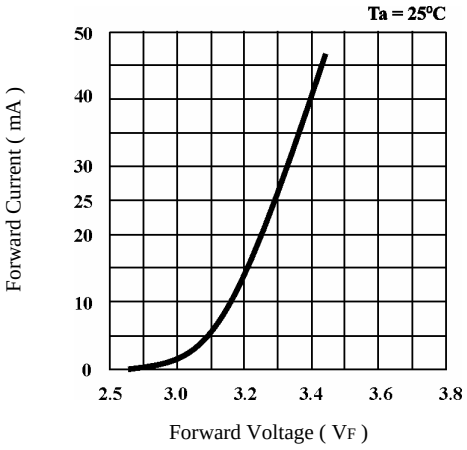
Parameter	Symbol	Max.	Unit
Power Dissipation	P_D	100	mW
DC Forward Current	I_F	30	mA
Peak Forward Current #	I_{PF}	120	mA
Reverse Voltage	V_R	5	V
Reverse Current	I_R	10	uA
Operation Temperature Range	T_{opr}	+ 80 ~ - 30	Deg.
Storage Temperature Range	T_{stg}	+ 100 ~ - 40	Deg.
Soldering Temperature Range *	T_{sol}	260˚C for 5 Seconds	Deg.

Duty Ratio = 1/16 , Pulse width = 0.1ms

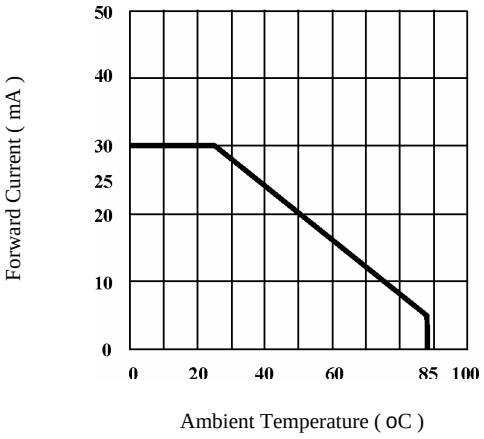
* Lead Soldering Temperature Range (1.6mm from LED Body)

Typical Electro-Optical Characteristics Curves

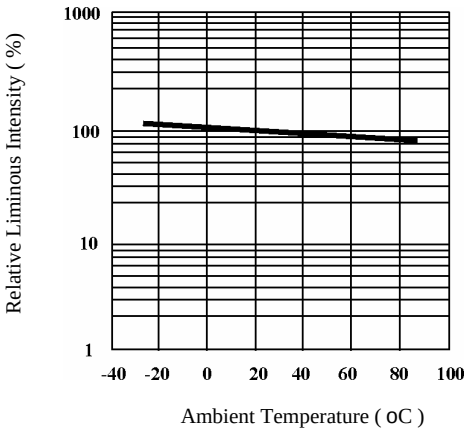
Forward Current VS Forward Voltage



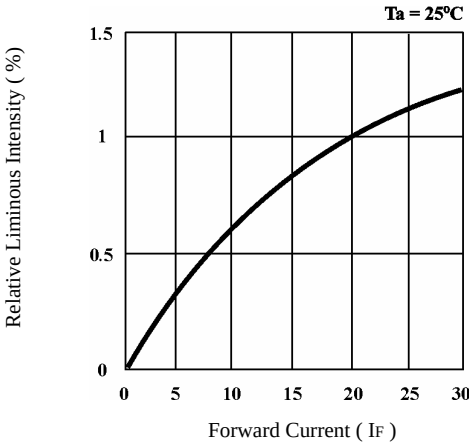
Forward Current VS Ambient Temperature



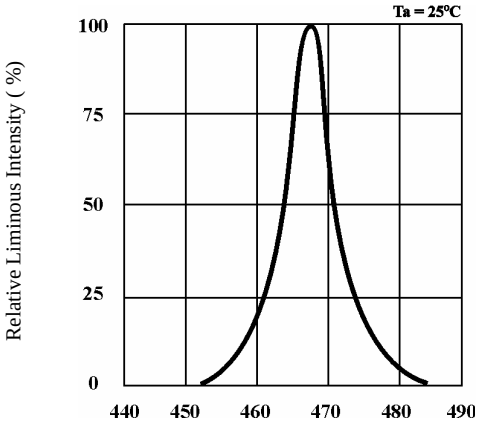
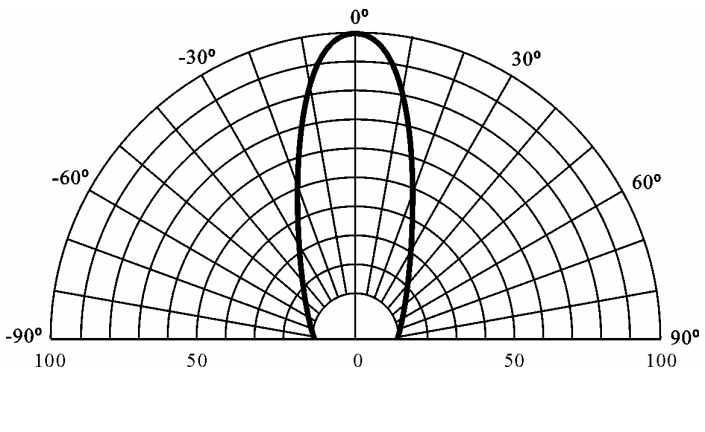
Luminous Intensity VS Ambient Temperature



Luminous Intensity VS Forward Current



Spectrum Distribution



Viewing Angle Diagram