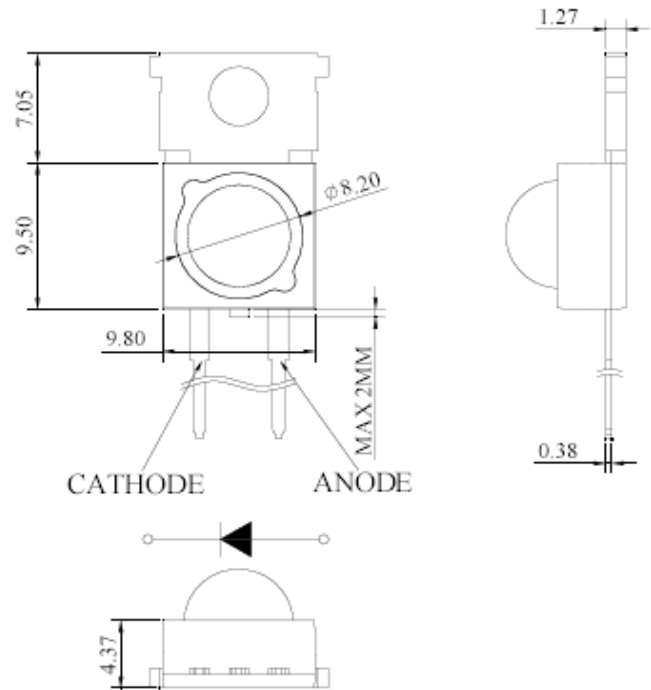




### Round Lens (60°) Dip Package Outlines



#### SELECTOR GUIDE

Part Number	Dice	Lens Color / Type	Pack Size	View Angle $2\theta_{1/2}$
MTHF1100-BL	Blue	Water Clear	1-Watt	60°

#### ELECTRICAL / OPTICAL CHARACTERISTICS AT $T_A=25^\circ\text{C}$

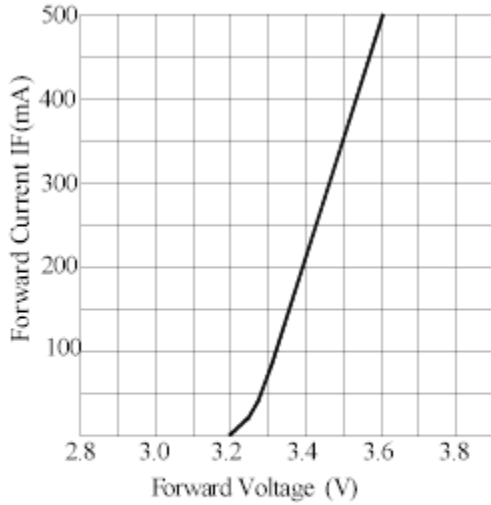
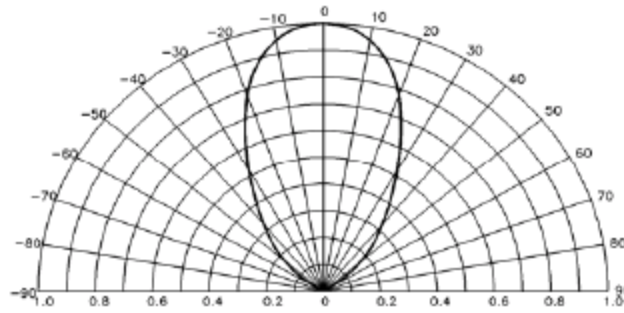
Parameter	Symbol	Device	Min.	Typ.	Max.	Units	Test Conditions
Forward Voltage	$V_F$	Blue	-	3.5	4.25	V	350mA
Reverse Current	$I_R$	Blue	-	-	50	$\mu\text{A}$	5V
Luminous Intensity	$I_v$	Blue	5.0	7.0	-	lm	350mA
Peak Wavelength	$\lambda_{\text{peak}}$	Blue	-	AVL UPON REQUEST	-	nm	350mA
Dominant Wavelength	$\lambda_D$	Blue	-	468	-	nm	350mA
Spectral Line Half-Width	$\Delta\lambda_{1/2}$	Blue	-	NA	-	nm	350mA

#### ABSOLUTE MAXIMUM RATINGS AT $T_A=25^\circ\text{C}$

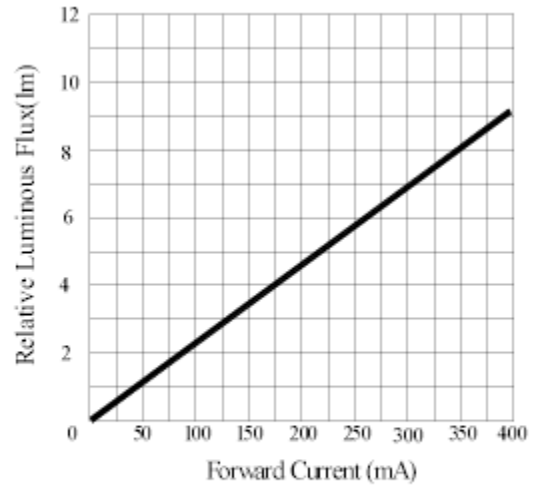
Parameter	Rating	Units
Forward Current ( $I_F$ )	350	mA
Power Dissipation ( $P_D$ )	-	mW
Reverse Voltage ( $V_R$ )	5	V
Operating Temperature ( $T_{OPR}$ )	-40 ~ +75	°C
Storage Temperature ( $T_{STG}$ )	-40 ~ +105	°C
Lead Solder Temperature ( $T_{SOL}$ )	260 @ for 10 sec. max	

1. All Dimensions Are In Millimeters (inches).
2. Tolerance Is +0.25(0.01") Unless Otherwise Noted.
3. Specifications Are Subject To Change Without Notice.

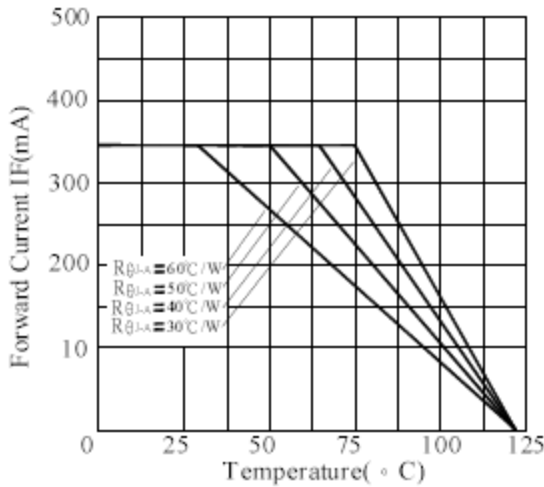
**Typical Radiation Pattern for Round Lens(201/2 : 60±10°)**



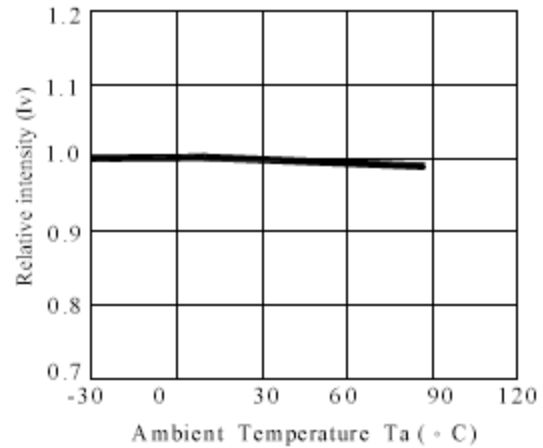
Forward Current VS. Applied Voltage



Forward Current VS. Luminous Intensity



Ambient Temperature VS. Forward Current



Relative intensity VS. Ambient Temperature

Wavelength Spectrum of Blue

