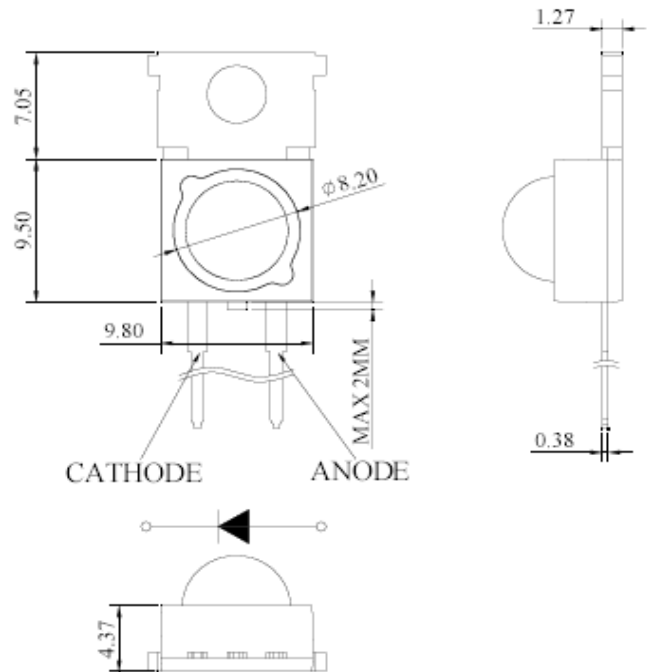




**Round Lens (60°) Dip Package Outlines**



**SELECTOR GUIDE**

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

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

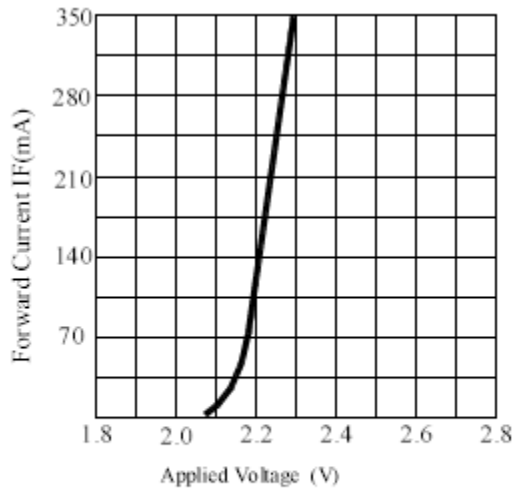
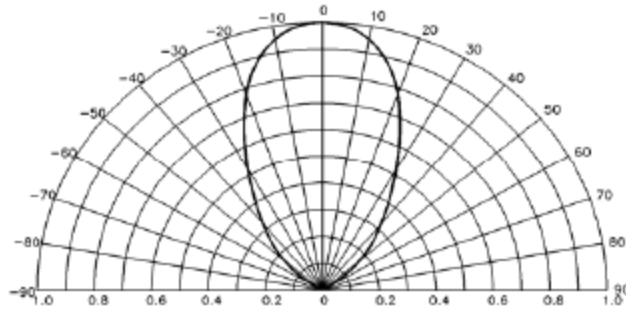
Parameter	Symbol	Device	Min.	Typ.	Max.	Units	Test Conditions
Forward Voltage	$V_F$	Yellow	-	2.0	2.8	V	350mA
Reverse Current	$I_R$	Yellow	-	-	50	$\mu\text{A}$	5V
Luminous Intensity	$I_V$	Yellow	10.7	20.00	-	lm	350mA
Peak Wavelength	$\lambda_{\text{peak}}$	Yellow	-	AVL UPON REQUEST	-	nm	350mA
Dominant Wavelength	$\lambda_D$	Yellow	-	590	-	nm	350mA
Spectral Line Half-Width	$\Delta\lambda_{1/2}$	Yellow	-	NA	-	nm	350mA

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

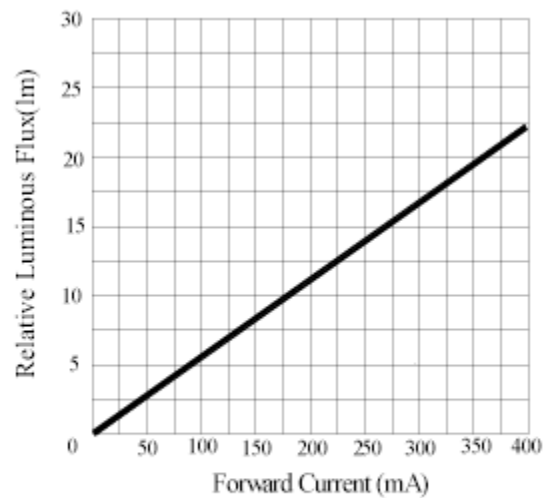
Parameter	Rating	Units
Forward Current ( $I_F$ )	350	mA
Power Dissipation ( $P_D$ )	-	mW
Reverse Voltage ( $V_R$ )	5	V
Operating Temperature ( $T_{OPR}$ )	-40 ~ +75	$^\circ\text{C}$
Storage Temperature ( $T_{STG}$ )	-40 ~ +105	$^\circ\text{C}$
Lead Solder Temperature ( $T_{SOL}$ )	260 @ for 10 sec. max	

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.

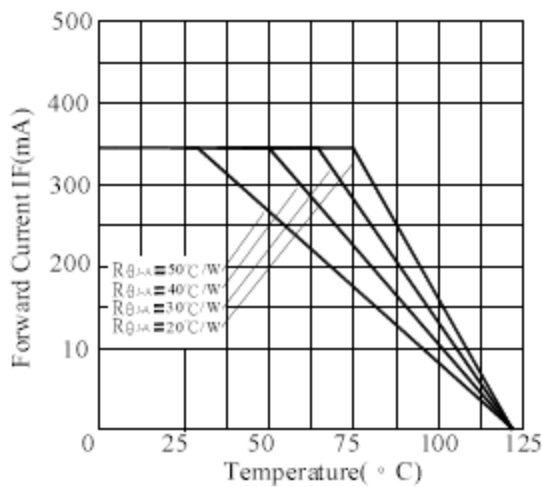
**Typical Radiation Pattern for Round Lens(201/2 : 60±10°)**



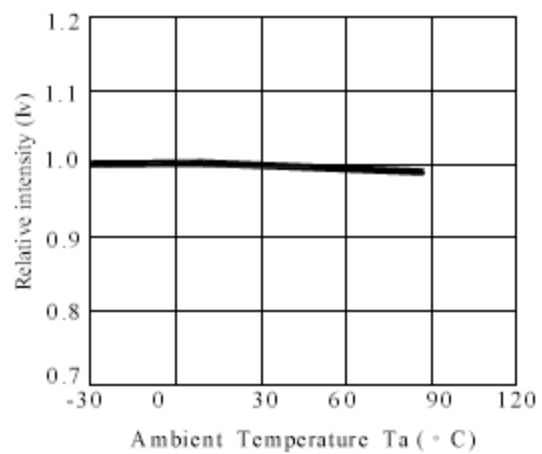
Forward Current VS. Applied Voltage



Forward Current VS. Luminous Intensity



Ambient Temperature VS. Forward Current



Relative intensity VS. Ambient Temperature

Wavelength Spectrum of Yellow

