

SELECTOR GUIDE

Part Number	Dice	Lens Color / Type	Pack Size	View Angle $2\theta_{1/2}$
MTB10000-G-A	Green	White Diffused	Bar Graph 10 Seg	0°

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

Parameter	Symbol	Device	Min.	Typ.	Max.	Units	Test Conditions
Forward Voltage	V_F	Green	-	2.1	2.6	V	20mA
Reverse Current	I_R	Green	-	-	100	μA	5V
Luminous Intensity	I_V	Green	2	3.4	-	mcd	10mA
Peak Wavelength	λ_{peak}	Green	-	567	-	nm	20mA
Dominant Wavelength	λ_D	Green	-	572	-	nm	20mA
Spectral Line Half-Width	$\Delta\lambda_{1/2}$	Green	-	30	-	nm	20mA

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

Parameter	Rating	Units
Forward Current (I_F)	30	mA
Power Dissipation (P_D)	78	mW
Reverse Voltage (V_R)	5	V
Operating Temperature (T_{OPR})	-25 ~ +85	°C
Storage Temperature (T_{STG})	-40 ~ +100	°C
Lead Solder Temperature (T_{SOL})	260 @ for 5 sec. max	

- All Dimensions Are In Millimeters (inches).
- Tolerance Is $\pm 0.25(0.01")$ Unless Otherwise Noted.
- Specifications Are Subject To Change Without Notice.

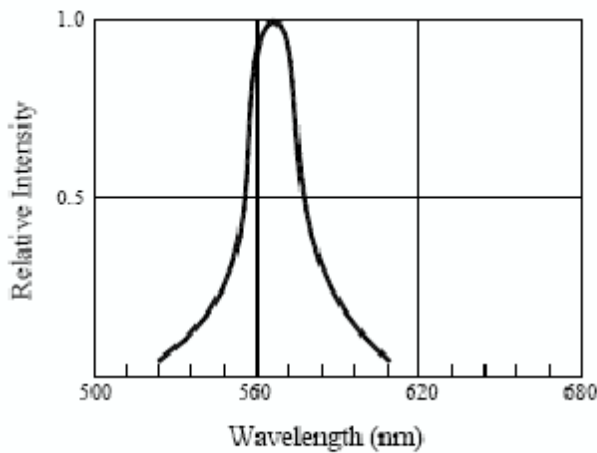


Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

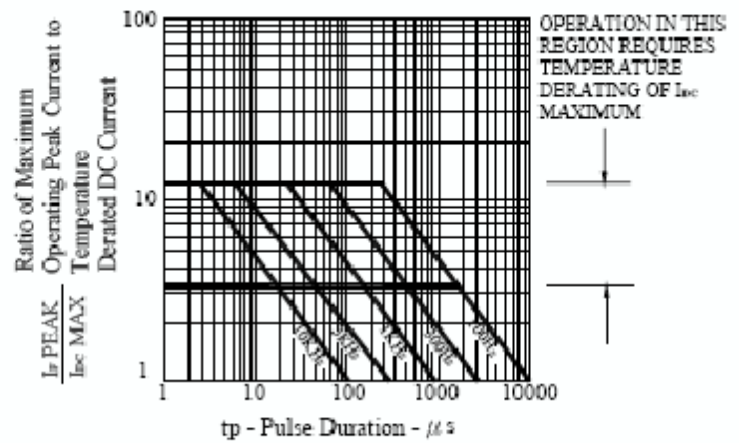


Fig.2 MAXIMUM TOLERABLE PEAK CURRENT VS. PULSE DURATION

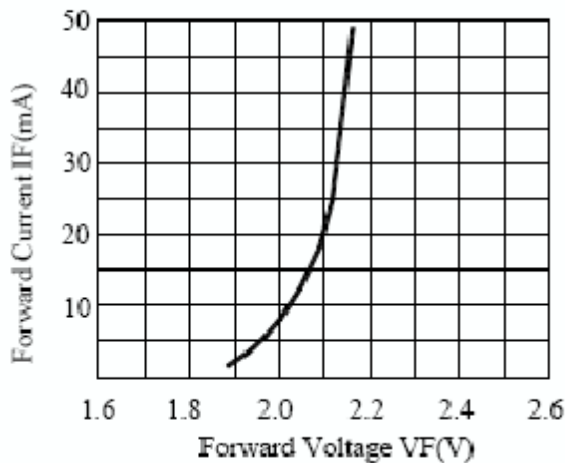


Fig. 3 FORWARD CURRENT VS. FORWARD VOLTAGE PER CHIP

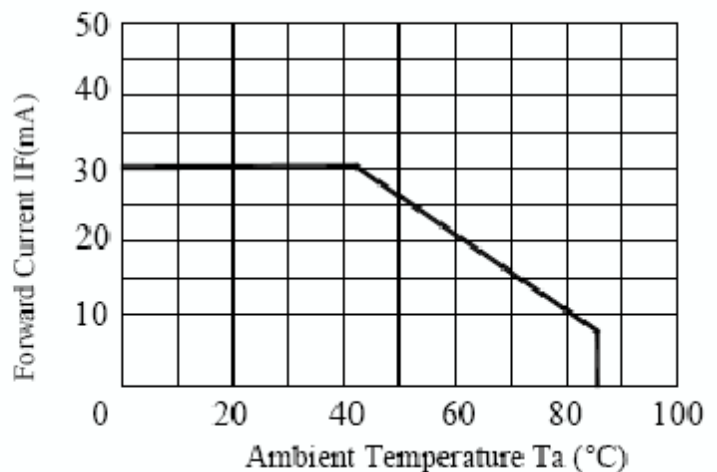


Fig.4 FORWARD CURRENT VS. DERATING CURVE

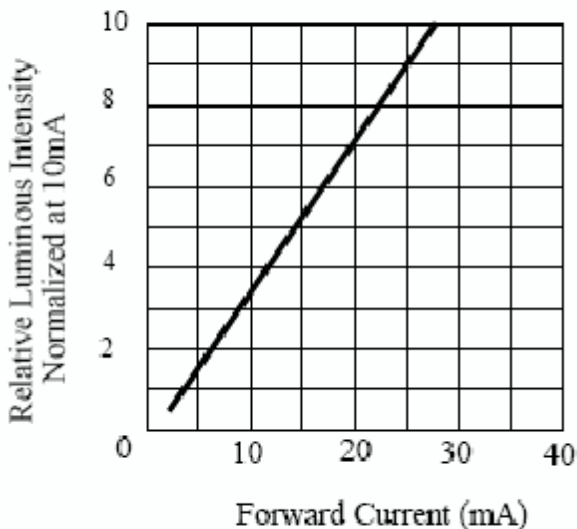


Fig.5 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

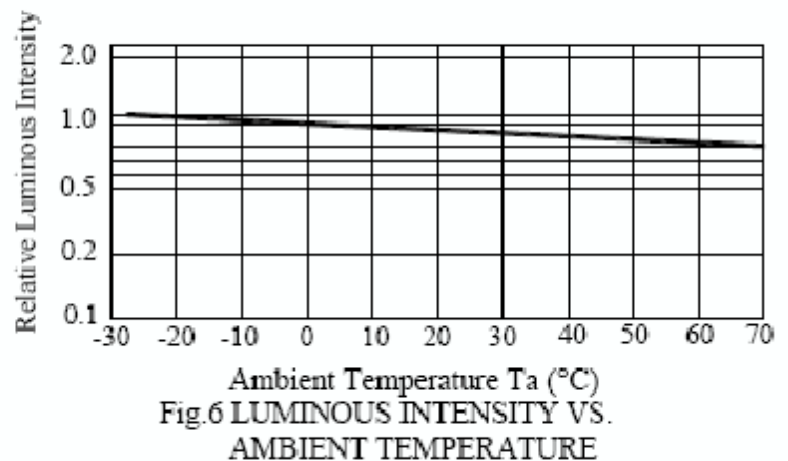


Fig.6 LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

