

SELECTOR GUIDE

Part Number	Dice	Lens Color / Type	Pack Size	View Angle $2\theta_{1/2}$
MTB10000-Y-A	Yellow	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	Yellow	-	2.1	2.6	V	20mA
Reverse Current	I_R	Yellow	-	-	100	μA	5V
Luminous Intensity	I_V	Yellow	1.1	2.8	-	mcd	10mA
Peak Wavelength	λ_{peak}	Yellow	-	585	-	nm	20mA
Dominant Wavelength	λ_D	Yellow	-	590	-	nm	20mA
Spectral Line Half-Width	$\Delta\lambda_{1/2}$	Yellow	-	35	-	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.

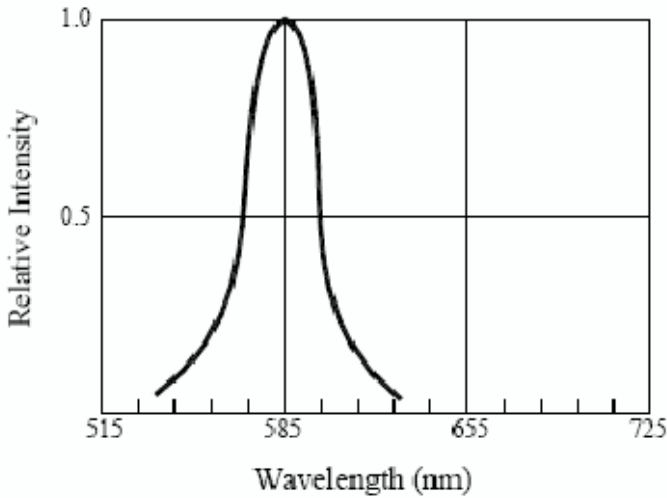


Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

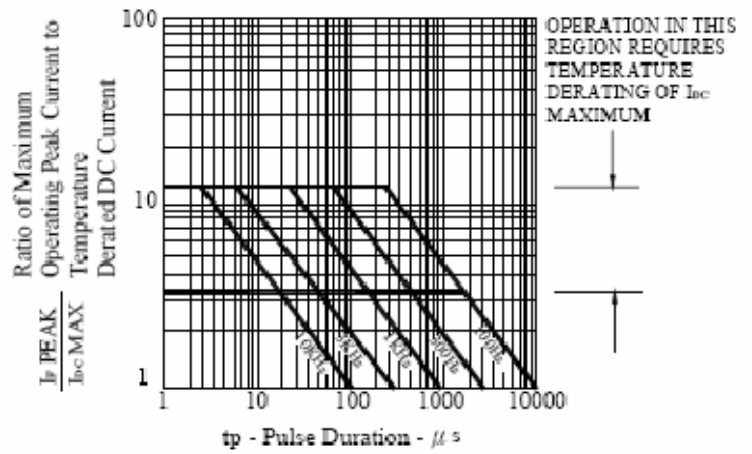


Fig.2 MAXIMUM TOLERABLE PEAK CURRENT VS. PULSE DURATION

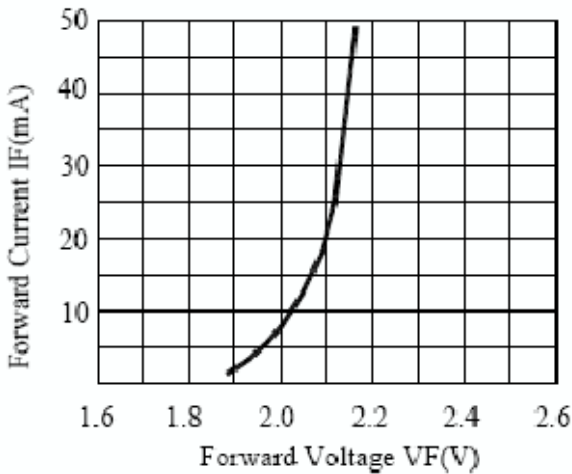


Fig.3 FORWARD CURRENT VS. FORWARD VOLTAGE PER CHIP

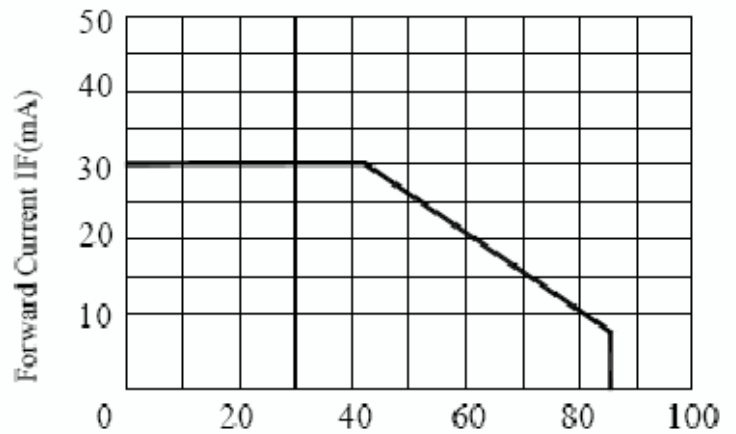


Fig.4 FORWARD CURRENT VS. DERATING CURVE

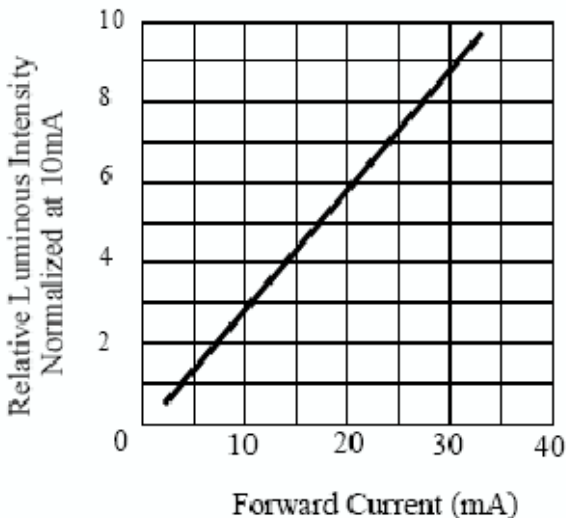


Fig.5 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

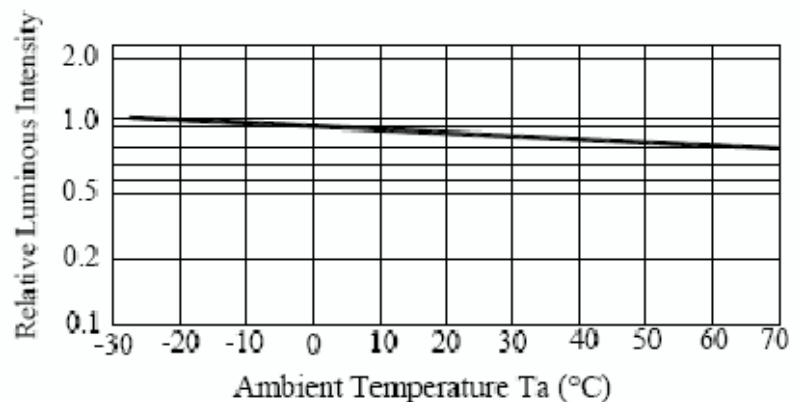


Fig.6 LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

