

SELECTOR GUIDE

Part Number	Dice	Lens Color / Type	Pack Size	View Angle 2θ 1/2
MTB10000-HR-A	Orange	Red Diffused	Bar Graph 10 Seg	0 °

ELECTRICAL / OPTICAL CHARACTERISTICS AT T_A=25°C

Parameter	Symbol	Device	Min.	Typ.	Max.	Units	Test Conditions
Forward Voltage	V _F	Orange	-	2.1	2.6	V	20mA
Reverse Current	I _R	Orange	-	-	100	μA	5V
Luminous Intensity	I _v	Orange	1.6	3.9	-	mcd	10mA
Peak Wavelength	λ _{peak}	Orange	-	635	-	nm	20mA
Dominant Wavelength	λ _D	Orange	-	626	-	nm	20mA
Spectral Line Half-Width	Δλ _{1/2}	Orange	-	35	-	nm	20mA

ABSOLUTE MAXIMUM RATINGS AT T_A=25°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	

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.

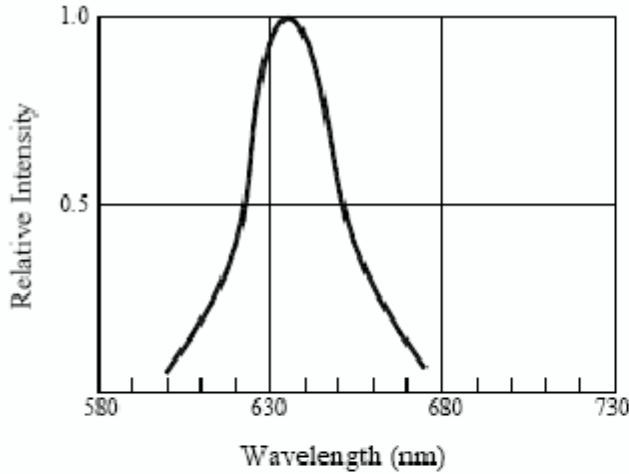


Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

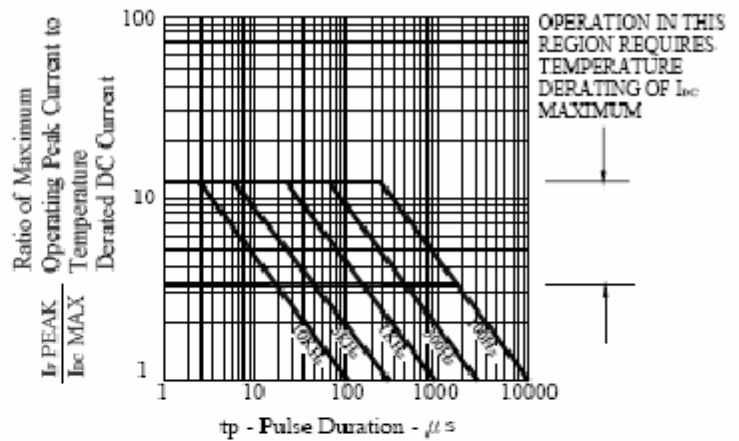


Fig.2 MAXIMUM TOLERABLE PEAK CURRENT VS. PULSE DURATION

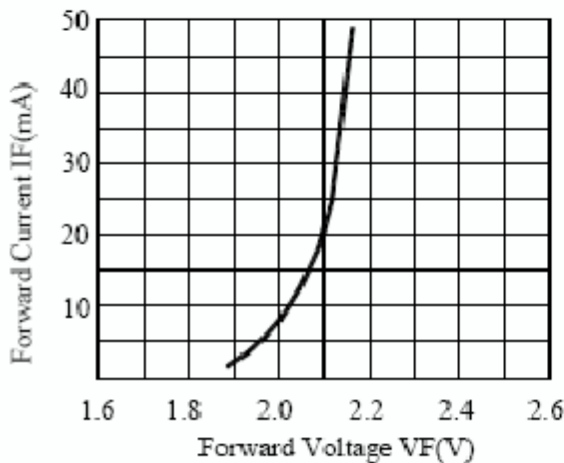


Fig.3 FORWARD CURRENT VS. FORWARD VOLTAGE PER CHIP

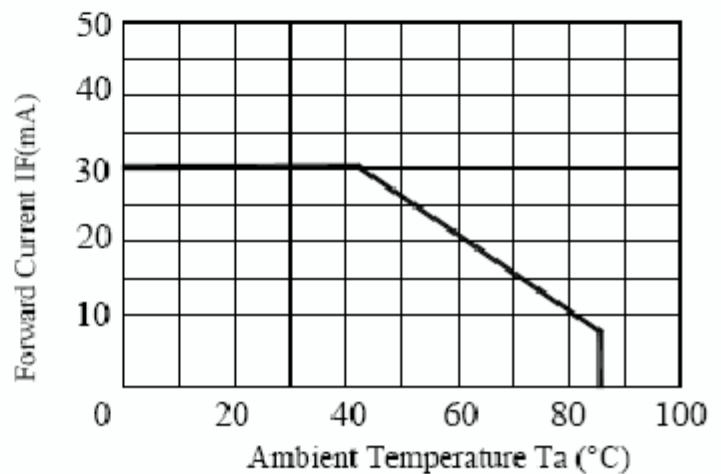


Fig.4 FORWARD CURRENT VS. DERATING CURVE

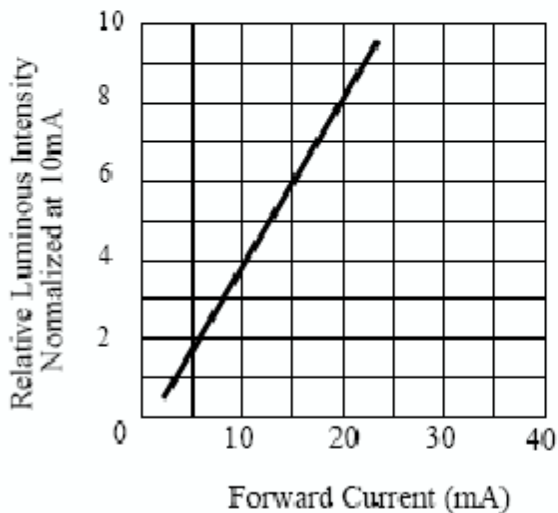


Fig.5 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

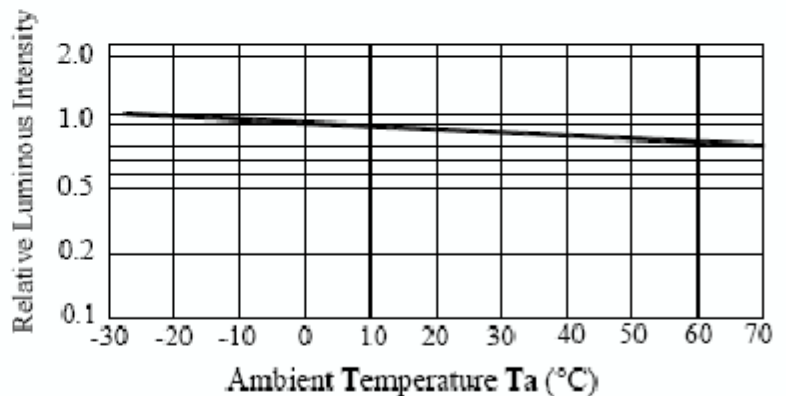


Fig.6 LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

