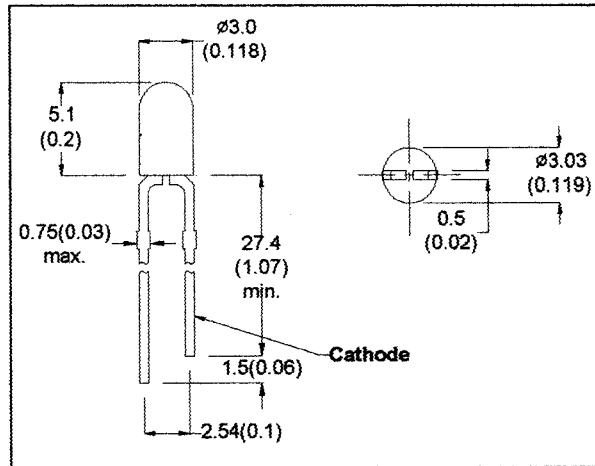


#### DESCRIPTION

MGB33C is green GaP & MYB33C is yellow GaAsP, high brightness LED lamp encapsulated in a 3mm diameter, MGB33C is green transparent lens and MYB33C is yellow transparent lens.



- All Dimension in mm (inch)
- No Scale
- Tol : +/- 0.3mm

#### ABSOLUTE MAXIMUM RATINGS

Power Dissipation @ $T_a=25^\circ\text{C}$   
 Forward Current, DC (IF)  
 Reverse Voltage  
 Operating & Storage Temperature Range  
 Lead Soldering Temperature (1/16" from body)

#### MGB33C

90mW  
 30mA  
 5V  
 -55 to +100°C  
 260°C for 5 sec.

#### MYB33C

60mW  
 20mA  
 5V

#### ELECTRO-OPTICAL CHARACTERISTICS ( $T_a=25^\circ\text{C}$ )

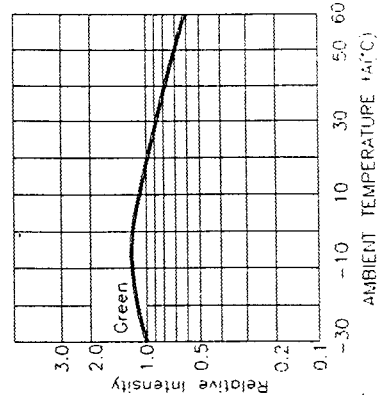
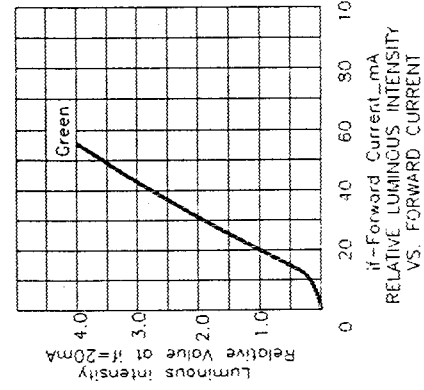
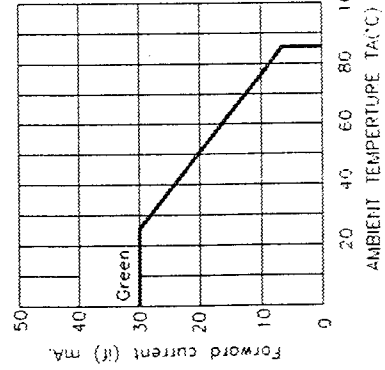
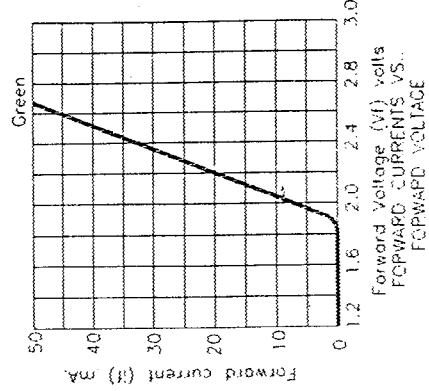
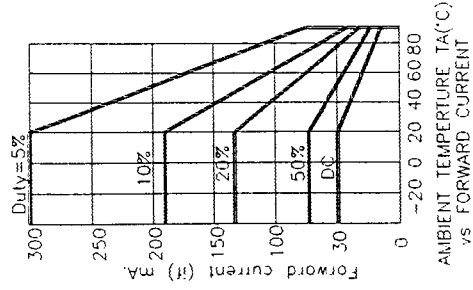
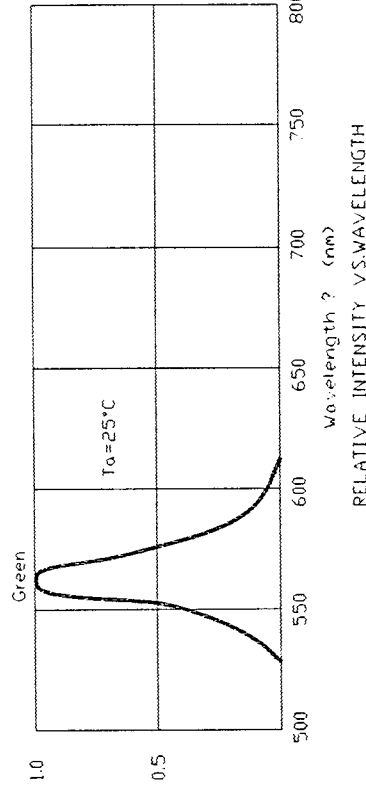
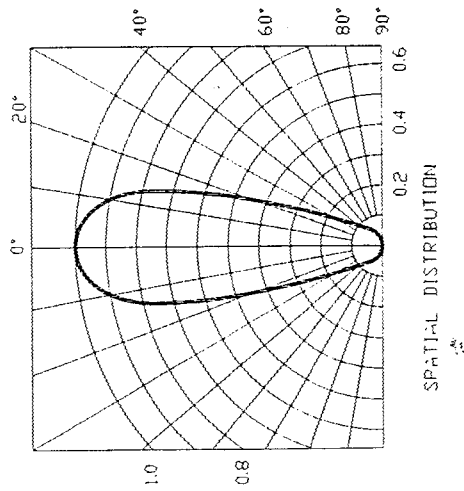
PARAMETER		SYMBOL	MGB33C	MYB33C	UNIT	CONDITIONS
Forward Voltage	MAX	VF	3.0	3.0	V	IF=20mA
Reverse Breakdown Voltage	MIN	BVR	5	5	V	IR=100 $\mu$ A
Luminous Intensity	MIN	IV	66	36	mcd	IF=20mA
	TYP		120	60	mcd	IF=20mA
Peak Wavelength	TYP	$\lambda_p$	570	585	nm	IF=20mA
Spectral Line Half Width	TYP	$\Delta\lambda$	30	35	nm	IF=20mA
Viewing Angle	TYP	$2\theta$ 1/2	40	40	degree	IF=20mA

MICRO ELECTRONICS LTD.

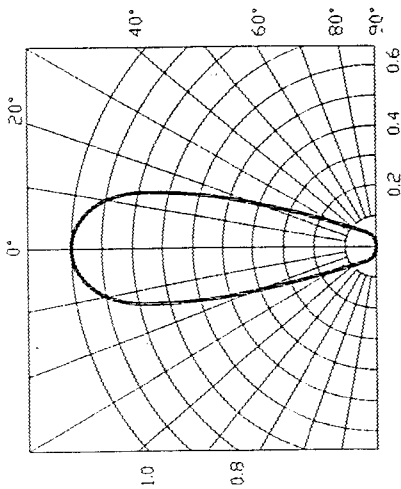
38, Hung To Road, Microtron Building, Kwun Tong, Kowloon, Hong Kong.  
 Kwun Tong P.O. Box 69477 Hong Kong. Fax No. 2341 0321 Telex: 43510 Micro Hx. Tel: 2343 0181-5

May-97

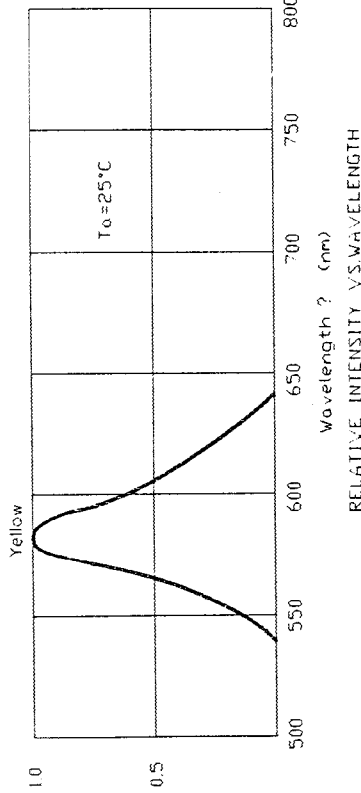
MGB33C



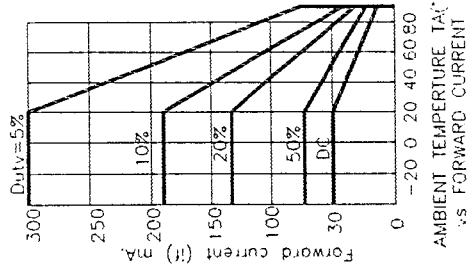
MYB33C



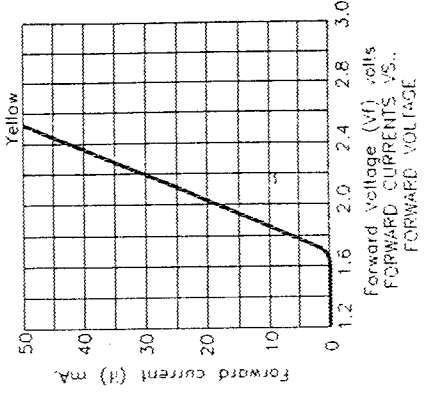
SPATIAL DISTRIBUTION



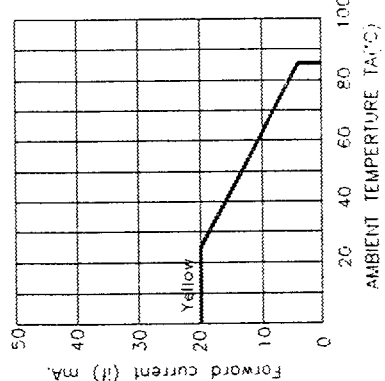
RELATIVE INTENSITY VS. WAVELENGTH



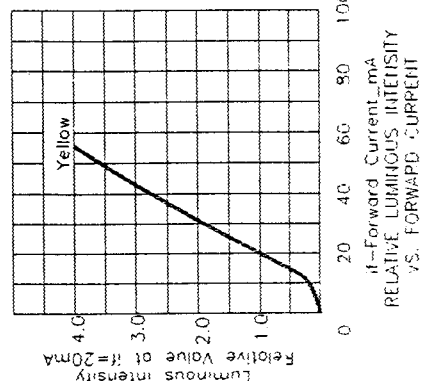
AMBIENT TEMPERATURE  $T_a$  vs FORWARD CURRENT



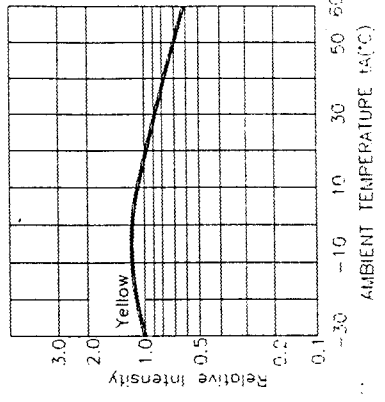
Forward Voltage (Vf) volts FORWARD CURRENTS VS. FORWARD VOLTAGE



AMBIENT TEMPERATURE  $T_a$  vs FORWARD CURRENT



Relative LUMINOUS INTENSITY vs. FORWARD CURRENT



AMBIENT TEMPERATURE  $T_a$  vs. RELATIVE INTENSITY