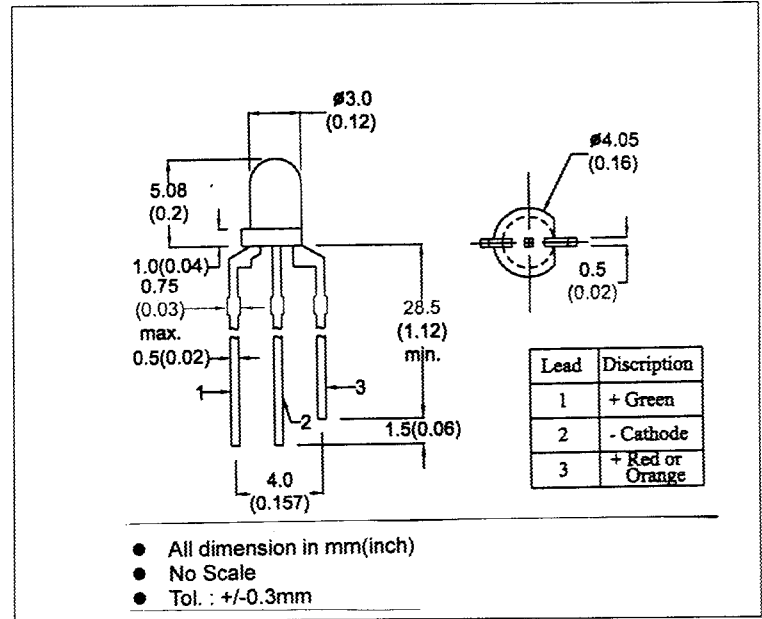


### DESCRIPTION

A high efficiency red and green lamp made of GaAsP, GaP offering a changing color characteristics dependent on the direction the lamp is biased. These two light emitting diodes are mounted in 3mm flangeless dual color, white diffused lens.



### ABSOLUTE MAXIMUM RATINGS

Power Dissipation @ Ta=25°C	100mW
Forward Current, DC (IF)	30mA
Reverse Voltage	5V
Operating & Storage Temperature Range	-55 to +100°C
Lead Soldering Temperature (1/16" from body)	260°C for 5 sec.

### ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	HI-EFF RED	GREEN	UNIT	CONDITIONS
Forward Voltage	MAX VF	3.0	3.0	V	IF=20mA
Reverse Breakdown Voltage	MIN BVR	5	5	V	IR=100μA
Luminous Intensity	MIN	4.5	6.5	mcd	IF=20mA
	TYP	8.5	12	mcd	IF=20mA
Peak Wavelength	TYP λp	650	570	nm	IF=20mA
Spectral Line Half Width	TYP Δλ	35	30	nm	IF=20mA
Viewing Angle	TYP 2θ 1/2	70	70	degree	IF=20mA

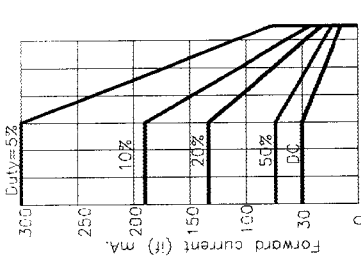


MICRO ELECTRONICS LTD.

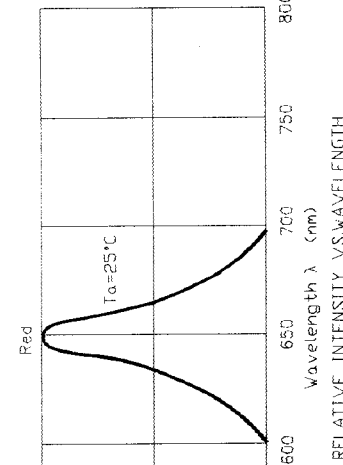
38, Hung To Road, Microtron Building, Kwun Tong, Kowloon, Hong Kong.  
Kwun Tong P.O. Box 69477 Hong Kong. Fax No. 2341 0321 Telex:43510 Micro Hx. Tel: 2343 0181-5

Sep-98

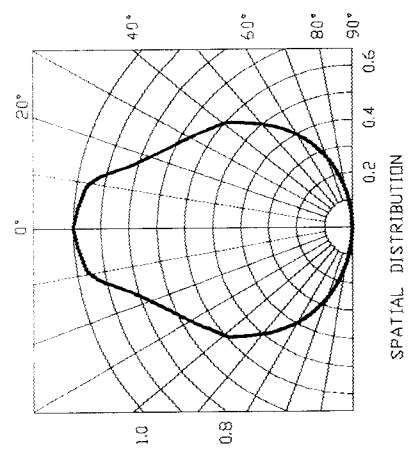
# MSCB390 (RED COLOR)



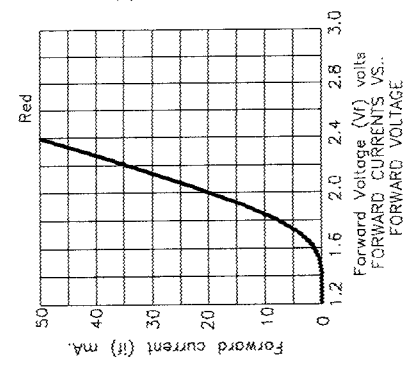
AMBIENT TEMPERATURE  $T_A$  ( $^{\circ}\text{C}$ ) vs FORWARD CURRENT



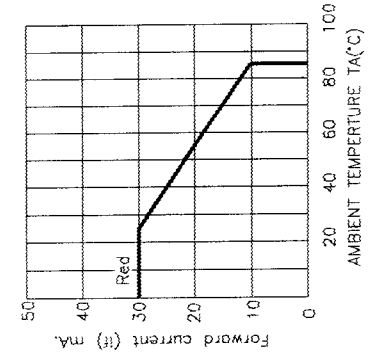
RELATIVE INTENSITY VS. WAVELENGTH



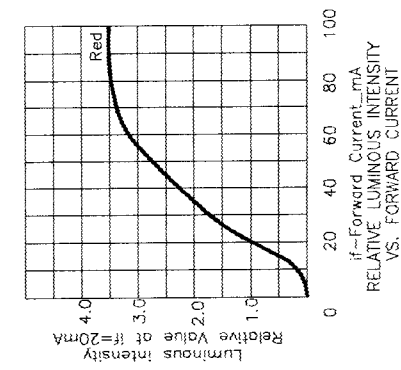
SPATIAL DISTRIBUTION



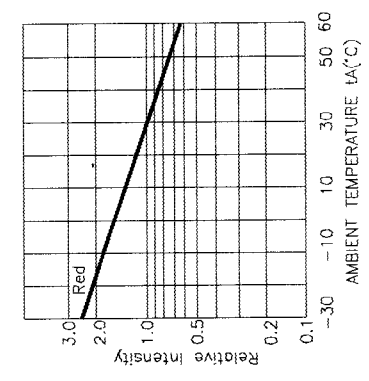
FORWARD VOLTAGE ( $V_F$ ) VOLTS vs. FORWARD CURRENTS



AMBIENT TEMPERATURE  $T_A$  ( $^{\circ}\text{C}$ ) vs FORWARD CURRENT



RELATIVE LUMINOUS INTENSITY vs. FORWARD CURRENT



AMBIENT TEMPERATURE  $T_A$  ( $^{\circ}\text{C}$ ) vs RELATIVE INTENSITY

# USC8050 (SPT) (20,000)

