

## DESCRIPTION

This series of solid state indicators are 3mm diameter flangeless LED lamp.

MRB38D is a GaAsP/GaAs red chip with red diffused lens.

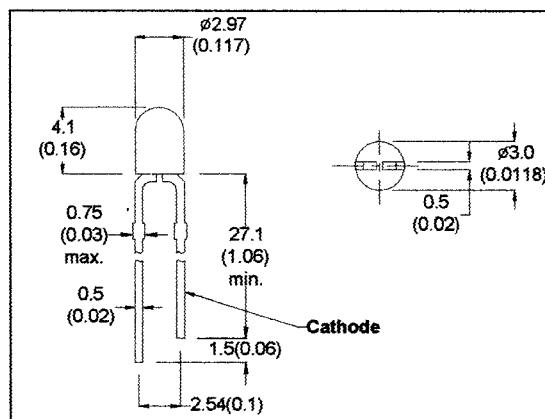
MSB38D is a GaP/GaP red chip with red diffused lens.

MOB38DR is high efficiency red chip with red diffused lens.

MOB38D is a GaAsP/GaP orange chip with orange diffused lens.

MGB38D is a GaP/GaP green chip with green diffused lens.

MYB38D is a GaAsP/GaP yellow chip with yellow diffused lens.



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

## ABSOLUTE MAXIMUM RATINGS

TYPE NO.	M R B 3 8 D	M S B 3 8 D	M O B 3 8 D R	M O B 3 8 D	M G B 3 8 D	M Y B 3 8 D	UNIT
Power Dissipation @ Ta=25°C	80	40	100	100	100	60	mW
Forward Current, DC (IF)	40	15	30	30	30	20	mA
Reverse Voltage	5	5	5	5	5	5	V
Operating & Storage Temperature Range	-55 to +100						°C
Lead Temperature (Soldering 5 sec, 1/16" from body)	260						°C

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

PARAMETER		S Y M B O L	M R B 3 8 D	M S B 3 8 D	M O B 3 8 D R	M O B 3 8 D	M G B 3 8 D	M Y B 3 8 D	U N I T	CONDITIONS
Forward Voltage	MAX	VF	2.0	3.0	3.0	3.0	3.0	3.0	V	IF=20mA
Reverse Breakdown Voltage	MIN	BVR	5	5	5	5	5	5	V	IR=100 μA
Luminous Intensity	MIN	IV	0.9	0.75*	12	12	18	9	mcd	IF=20mA
	TYP		1.3	1*	20	20	25	15	mcd	IF=20mA
Peak Wavelength	TYP	λp	660	700	640	630	570	585	nm	IF=20mA
Spectral Line Half Width	TYP	Δλ	20	100	40	40	30	40	nm	IF=20mA
Viewing Angle	TYP	2θ 1/2	70	70	70	70	70	70	degree	IF=20mA

\* IV @ IF=10mA.

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

Aug-99