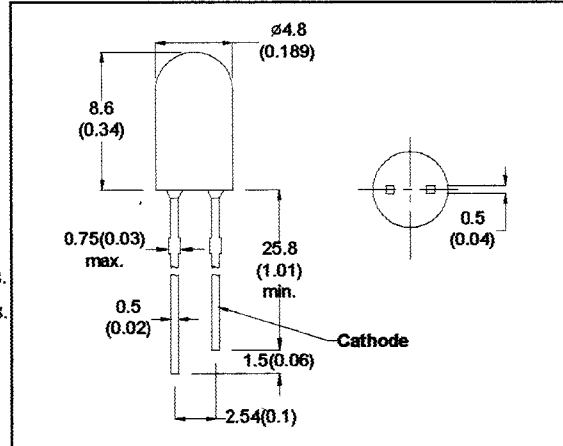


## DESCRIPTION

This series of solid state indicators are 4.8mm diameter flangeless LED lamp.

MRB48D is a GaAsP/GaAs red chip with red diffused lens.  
MSB48D is a GaP/GaP red chip with red diffused lens.  
MGB48D is a GaP/GaP green chip with green diffused lens.  
MYB48D is a GaAsP/GaP yellow chip with yellow diffused lens.  
MOB48D is a GaAsP/GaP orange chip with orange diffused lens.  
MOB48DR is high efficiency red chip with red diffused lens.



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

## ABSOLUTE MAXIMUM RATINGS

	M R B 4 8 D	M S B 4 8 D	M O B 4 8 D R	M G B 4 8 D	M O B 4 8 D	M Y B 4 8 D	UNIT
Power Dissipation @ Ta=25°C	80	45	90	90	90	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 Soldering Temperature (1/16" from body)	260						°C

## ELECTRO-OPTICAL CHARACTERISTICS

PARAMETER	S Y M B O L	M R B 4 8 D	M S B 4 8 D	M O B 4 8 D R	M G B 4 8 D	M O B 4 8 D	M Y B 4 8 D	U N I T	CONDITIONS
Forward Voltage	MAX	VF	2.4	3.0	3.0	3.0	3.0	V	IF=20mA
Reverse Breakdown Voltage	MIN	BVR	5	5	5	5	5	V	IR=100 μA
Luminous Intensity	MIN	IV	1	0.8*	14	16	14	mcd	IF=20mA
	TYP		1.5	1.2*	20	22	20	mcd	IF=20mA
Peak Wavelength	TYP	λp	660	700	570	585	630	nm	IF=20mA
Spectral Line Half Width	TYP	Δλ	20	100	35	40	40	nm	IF=20mA

\* IV @ IF=10mA.

Rev.A.

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