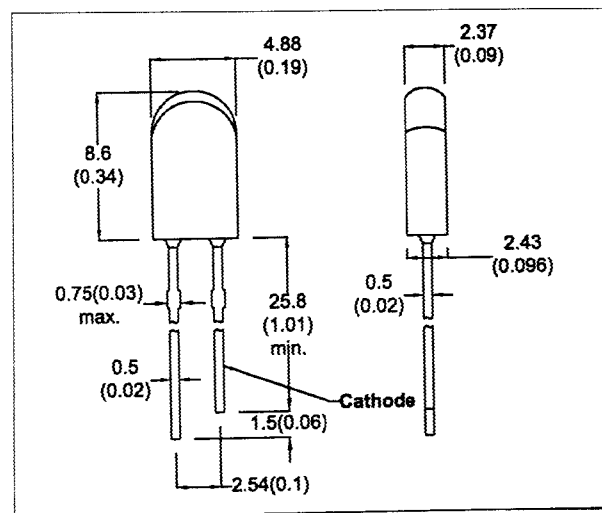


DESCRIPTION

This series lamps are low current high efficiency LED, encapsulated in a 2.37mm x 4.9mm round rectangular bars package with 1 inch lead.

MGB81DH is a green LED with green diffused lens.
MOB81DH is a orange LED with orange diffused lens.
MOB81DRH is a high efficiency red LED with red diffused lens.
MSB81DH is a red LED diffused lens.
MUB81DH is a GaAlAs red LED with red diffused lens.
MYB81DH is a yellow LED with yellow diffused lens.



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

ABSOLUTE MAXIMUM RATINGS

Power Dissipation @ Ta=25°C
Continuous Forward Current, DC (IF)
Reverse Voltage
Operating & Storage Temperature Range
Lead Temperature

	MSB81DH	MGB81DH	MOB81DH	MOB81DRH	MUB81DH
Power Dissipation	60mW	60mW	60mW	60mW	100mW
Continuous Forward Current, DC (IF)	20mA	20mA	20mA	20mA	30mA
Reverse Voltage	5V	5V	5V	5V	5V
Operating & Storage Temperature Range	-55 to +100°C	-55 to +100°C	-55 to +100°C	-55 to +100°C	-55 to +100°C
Lead Temperature	260°C for 5 sec.	260°C for 5 sec.	260°C for 5 sec.	260°C for 5 sec.	260°C for 5 sec.

ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	MGB	MOB	MOB*	MSB	MUB	MYB	UNIT	CONDITIONS
Forward Voltage	MAX VF	3.0	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=100μA
Luminous Intensity	MIN IV	1.6	1.5	1.5	1.3	1.3**	1.0	mcd	IF=2mA
	TYP	3.0	2.2	2.2	2.5	2.0**	1.8	mcd	IF=2mA
Peak Wavelength	TYP λp	570	630	640	650	660	585	nm	IF=20mA
Spectral Line Half Width	TYP Δλ	35	40	40	100	20	35	nm	IF=20mA

* MOB81DRH

** IV @ IF=1mA



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