MICRO ELECTRONICS

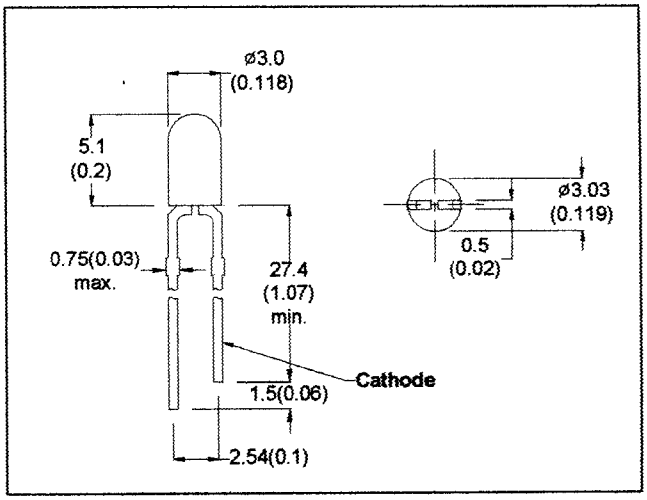
MOB33D
MOB33DR
MRB33D
MSB33D
MYB33D

ϕ 3mm FLANGELESS LED LAMPS

DESCRIPTION

This series of solid state indicators are 3mm diameter flangeless lamps

MGB33D is green LED with a green diffused lens.
MOB33D is orange LED with an orange diffused lens.
MOB33DR is orange LED with a red diffused lens.
MRB33D is red LED with a red diffused lens.
MSB33D is red LED with a red diffused lens.
MYB33D is yellow LED with a yellow diffused lens.



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

ABSOLUTE MAXIMUM RATINGS

	MGB33D MOB33D MOB33DR	MRB33D	MSB33D	MYB33D
Power Dissipation @ Ta=25℃	90mW	80mW	45mW	60mW
Forward Current, DC (IF)	30mA	40mA	15mA	20mA
Reverse Voltage	5v	5V	5V	5V
Operating & Storage Temperature Range		-55 to +100℃		
Lead Soldering Temperature (1/16" from body)		260℃ for 5 sec.		

ELECTRO-OPTICAL CHARACTERISTICS (Ta=25℃)

PARAMETER		SYMBOL	MGB33D	MOB33D	MOB33DR	MRB33D	MSB33D	MYB33D	UNIT	CONDITIONS
Forward Voltage	MAX	VF	3.0	3.0	3.0	2.0	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	20	15	15	1	1.2*	12	mcd	IF=20mA
	TYP		35	25	25	1.5	1.8*	20	mcd	
Peak Wavelength	TYP	λp	570	630	640	660	700	585	nm	IF=20mA
Spectral Line Half Width	TYP	Δλ	30	40	40	20	100	35	nm	IF=20mA
Viewing Angle	TYP	2θ1/2	70	70	70	70	70	70	degree	IF=20mA

*** IF = 10mA**

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