

MICRO

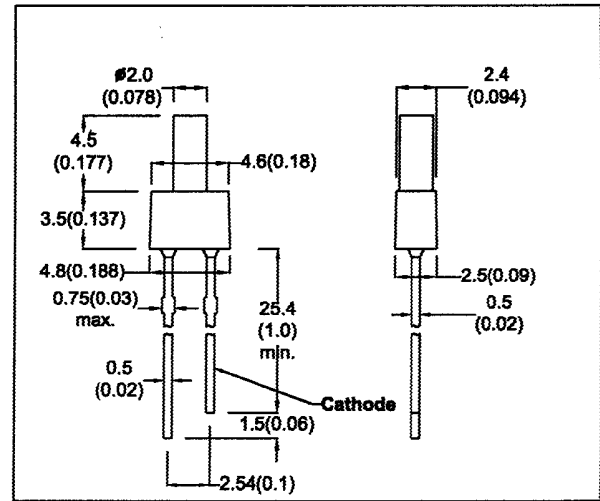
MGB20D
MYB20DO
DOT POINT Ø 2.0mm
HIGH EFFICIENCY
LED LAMPS

DESCRIPTION

This series are high efficiency LED lamp with dot point 2.0mm diameter epoxy package.

MSB20DA-0 is GaAlAs LED with a red diffused lens.
MGB20D is GaP LED with a green diffused lens.
MYB20DO is GaAsP LED with an orange diffused lens.

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



ABSOLUTE MAXIMUM RATINGS

	MSB20DA-0	MGB20D	MYB20DO
Power Dissipation (@ Ta=25°C)	95mW	90mW	60mW
Forward Current, DC (IF)	40mA	30mA	20mA
Reverse Voltage	5V	5V	5V
Operating & Storage Temperature Range		-55 to +100°C	
Lead Soldering Temperature (1/16" from body)		260°C for 5 sec.	

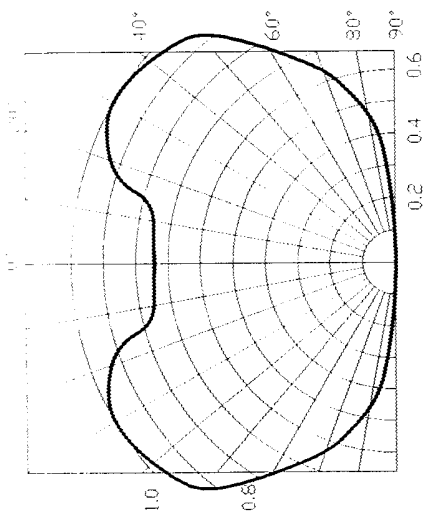
ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	MSB20DA-0	MGB20D	MYB20DO	UNIT	CONDITIONS
Forward Voltage	MAX VF	2.4	3.0	3.0	V	IF=20mA
Reverse Breakdown Voltage	MIN BVR	5	5	5	V	IR=100µA
Luminous Intensity	MIN IV	8.0	8.0	5.0	mcd	IF=20mA
	TYP	13	16	10	mcd	IF=20mA
Peak Wavelength	TYP λp	660	570	595	nm	IF=20mA
Spectral Line Half Width	TYP Δλ	20	30	40	nm	IF=20mA
Viewing Angle	TYP 2θ 1/2	152	152	152	degree	IF=20mA

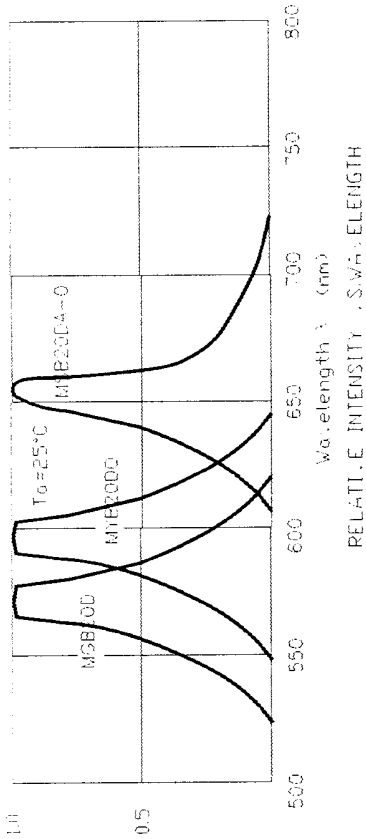


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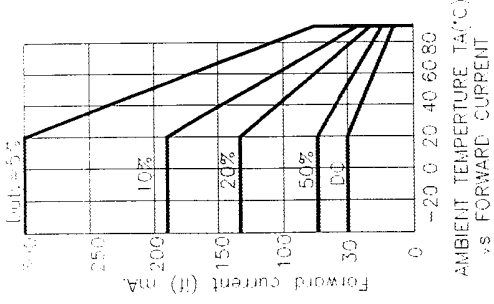
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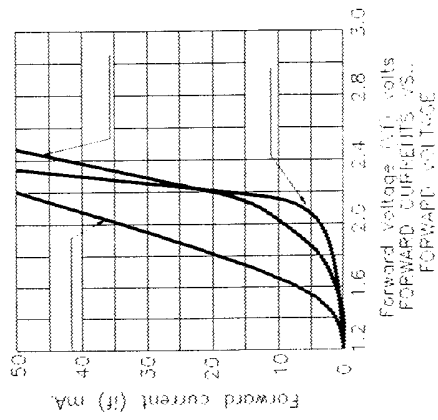
SPATIAL DISTRIBUTION



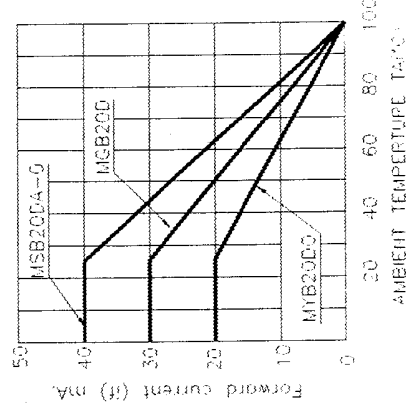
RELATIVE INTENSITY VS. WAVELENGTH



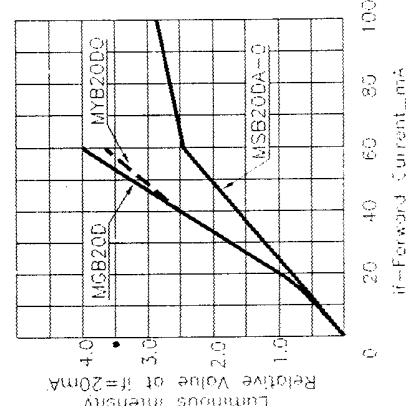
AMBIENT TEMPERATURE T_A (°C)
% FORWARD CURRENT



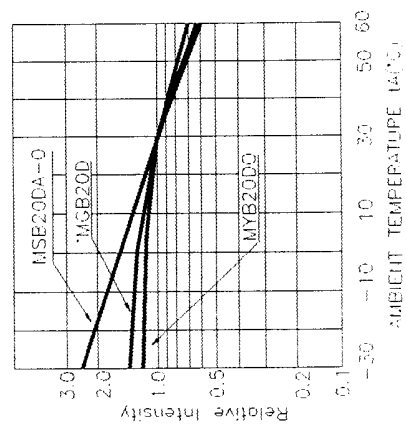
FORWARD VOLTAGE (VF) VOLTS
FORWARD CURRENT (IF) mA
FORWARD VOLTAGE



AMBIENT TEMPERATURE T_A (°C)



RELATIVE VALUE OF $I_f = 20\text{mA}$
AMBIENT TEMPERATURE T_A (°C)
% FORWARD CURRENT



AMBIENT TEMPERATURE T_A (°C)