MICRO ELECTRONICS

MLV-10-Y
MLV-10-G
MLV-10-OR
BAR GRAPH ARRAY

FEATURES :

- Wide viewing angle
- End stackable
- Fast switching, excellent for multiplexing
- Low power requirement
- IC compatible

DESCRIPTION

The MLV-10-X series are ten rectangular light sources array displays designed for a vairety of applications. Six color types are available for selection.

MLV-10-R GaAsP red LED chip with white segment color
MLV-10-S GaP red LED chip with white segment color
MLV-10-O GaAsP orange LED chip with white segment color
MLV-10-Y GaAsP yellow LED chip with white segment color
MLV-10-G GaP green LED chip with white segment color
MLV-10-OR GaAsP orange chip with red segment color

Three color prints face are available for choice : White, Black & Grey.

ABSOLUTE MAXIMUM RATINGS : (Ta=25°C)	R	S	O	Y	G	OR	UNIT
Power Dissipation / Bar	55	40	75	60	75	75	mW
Peak Forward Current / Bar (1/10 duty cycle, 0.1ms pulse width)	160	60	100	80	100	100	mA
Continuous Forward Current / Bar	25	15	25	20	25	25	mA
Derating Linear From 25°C / Bar	0.3	0.18	0.3	0.24	0.3	0.3	mA/°C
Reverse Voltage / Bar	5	5	5	5	5	5	V
Operating Temperature Range			-25 to +85				°C
Storage Temperature Range			-25 to +85				°C

Solder Temperature 1/16 inch below seating plane for 3 seconds at 260°C

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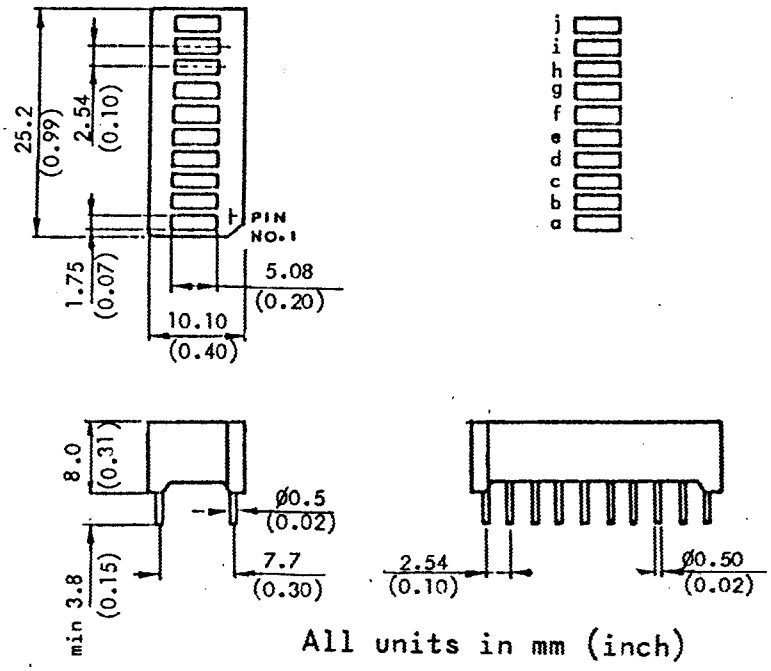
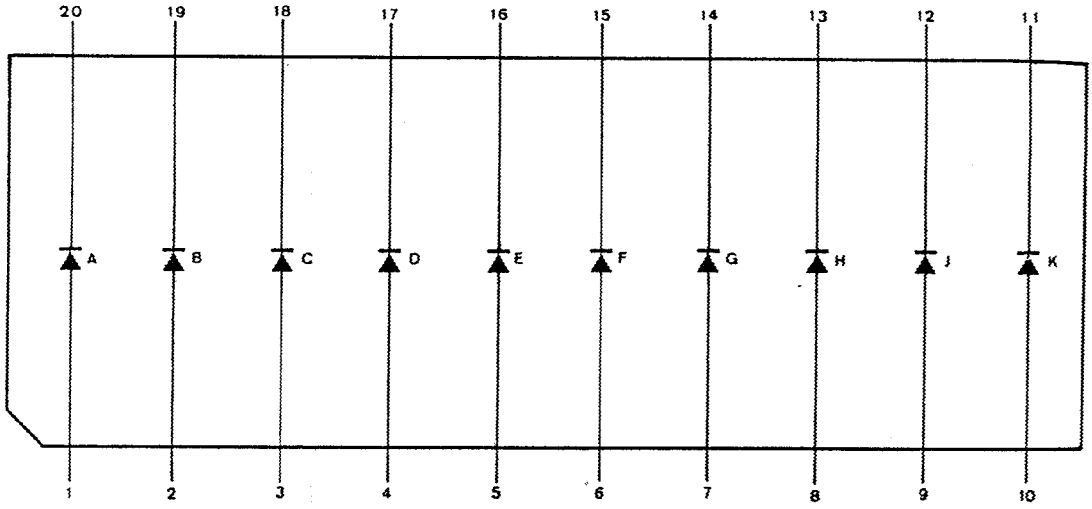


All units in mm (inch)

INTERNAL CIRCUIT DIAGRAM :



ELECTRICAL/OPTICAL CHARACTERISTICS : (Ta=25°C)

PARAMETER		SYMBOL	MLV-10-R	MLV-10-S	MLV-10-O	MLV-10-Y	MLV-10-G	MLV-10-OR	UNIT	CONDITIONS
Average Luminous Intensity	MIN TYP	IV	0.2 0.5	0.3 0.7	0.8 2.0	0.8 2.0	0.8 2.0	0.8 2.0	mcd	IF=10mA
Peak Emission Wavelength	TYP	λp	655	700	630	585	565	630	nm	IF=20mA
Spectral Line Half-Width	TYP	Δλ	24	90	30	35	40	40	nm	IF=20mA
Forward Voltage Any Bar	TYP MAX	VF	1.7 2.0	2.1 2.8	2.1 2.8	2.1 2.8	2.1 2.8	2.1 2.8	V	IF=20mA
Reverse Current Any Bar	MAX	IR	100	100	100	100	100	100	μA	VR=5V
Luminous Intensity Matching Ratio	MAX	Iv-m	2:1	2:1	2:1	2:1	2:1	2:1		IF=20mA