

MAX-LION

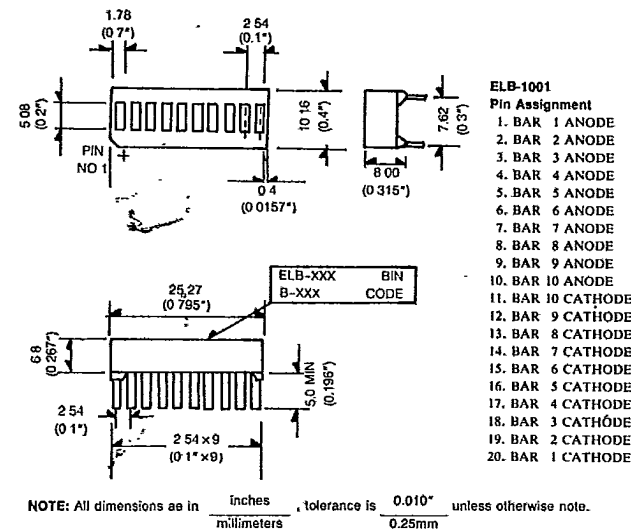
ELB-1001 SERIES

Bar Graph Array

MAIN FEATURES:

- * LARGE SEGMENTS, CLOSELY SPACES.
- * LOW POWER CONSUMPTION.
- * WIDE VIEWING ANGLE.
- * FAST SWITCHING, EXCELLENT FOR MULTIPLEX OPERATION
- * CATEGORIZED FOR LUMINOUS INTENSITY.

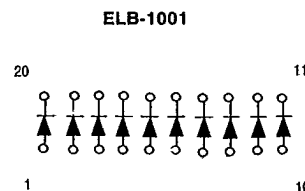
Package Dimensions:



DESCRIPTION:

The ELB-1001 series are ten-element bar graph displays. There are separate anodes and cathodes for each light segment and choice of five colors is offered. The packages are end stackable. The red and bright red ones are red segments and black surface. Green, yellow and orange ones are white segments and grey surface.

INTERNAL CIRCUIT DIAGRAM



ABSOLUTE MAXIMUM RATINGS: (Ta = 25°C)

Reverse Voltage	:	5 Volt
Reverse Current (Vr = 5V)	:	10μA
Operating Temperature Range	:	-40°C To 85°C
Storage Temperature Range	:	-40°C To 100°C
Lead Soldering Temperature [1.6 mm (0.063 inch) From Body]	:	260°C For 5 Seconds

Parameter Description	Symbol	Unit
Spectral Line Half-Width	$\Delta\lambda$	nm
Power Dissipation	Pd	mW
Peak Forward Current (Duty 1/10, @ 1 KHz)	If (Peak)	mA
Recommended Operating Current	If (Rec)	mA
Average Luminous Intensity *1.2 (If = 10mA)	Iv	μcd
Luminous Intensity Matching Ratio	Iv-m	
Forward Voltage (If = 20mA)	Vf	V

PART SELECTION AND APPLICATION INFORMATION (RATINGS AT 25°C AMBIENT)

Model No.	Chip		C.C. or C.A.	Peak Wave Length λP (nm)	Absolute Maximum Ratings				Electro-Optical Characteristics								Iv-m	Remark
	Material	Emitted Color			Δλ	Pd	If	If (Peak)	Vf (V)			If (Rec)	Iv (μcd)					
									Min.	Typ.	Max.		Min.	Typ.				
ELB-1001HDA	GaP	Bright Red		697	90	45	15	50	1.7	2.1	2.8	5 ~ 10	300	700	2:1	**		
ELB-1001GWA	GaP	Green		565	30	100	30	160	1.7	2.1	2.8	10 ~ 20	800	2000	2:1	*		
ELB-1001EWA	GaAsP/GaP	Orange		635	45	100	30	160	1.7	2.0	2.8	10 ~ 20	800	2000	2:1			
ELB-1001/H + 2Y + 7G	1 × Bright Red.			2 × Yellow.				7 × Green.										
ELB-1001/E + 2Y + 7G	1 × Orange.			2 × Yellow.				7 × Green.										

- NOTES: 1. The average luminous intensity is obtained by summing the luminous intensity of each segment and dividing by the total number of segments. The displays are categorized for luminous intensity with the intensity category designated by a letter located on the side of the package.
2. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (International Commission on Illumination) eye-response curve.
3. Clean only in water, isopropanol, ethanol, Freon TF (or equivalent).

Remark: ** The most popular types * Common types The rest are special types