

TOA-L15ZMRL-B

Light Bar Display LED

Part Number	Chip		Face Color	Segment Color
	Material	Source Color		
TOA-L15ZMRL-B	AlGaInP	Ultra-red	Black	White

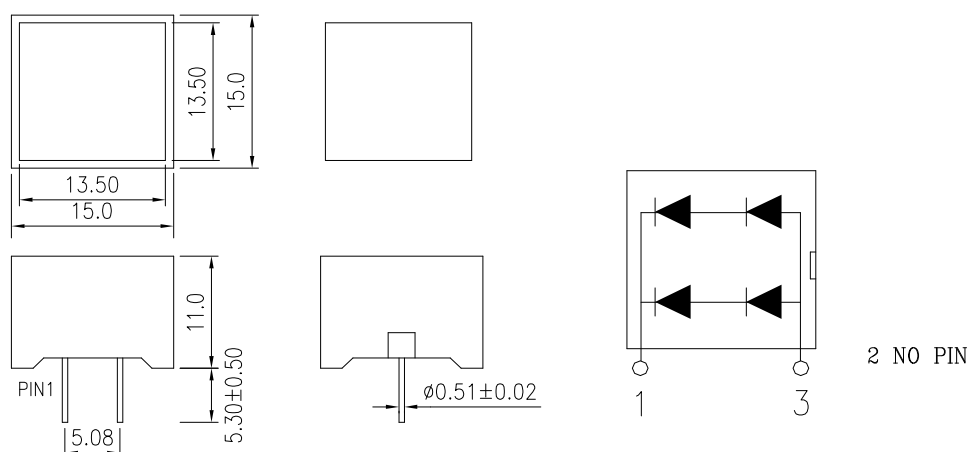
Features

- Light bar display
- Common universal
- I.C. compatible
- Low power requirement
- RoHS compliant

Applications

- Audio equipment
- Instrument panels
- Battery driven instruments

Package Dimensions & Internal Circuit Diagram



Notes:

1. All dimensions are in millimeters, tolerance: ± 0.25 ; Angle: $\pm 0.1^\circ$ unless otherwise noted.
2. Specifications are subject to change without notice.

Absolute Maximum Rating @ Ta=25°C

Parameter	Maximum Rating	Unit
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	160	mA
Power Dissipation	280	mW
Continuous Forward Current	40	mA
Recommend Operating Current	24	mA
Reverse Voltage	10	V
Operating Temperature Range	-25°C to +85°C	
Storage Temperature Range	-30°C to +85°C	
Lead-Free Solder Temperature(1/16 Inch Below Seating Plane)	260°C for 3 Sec	

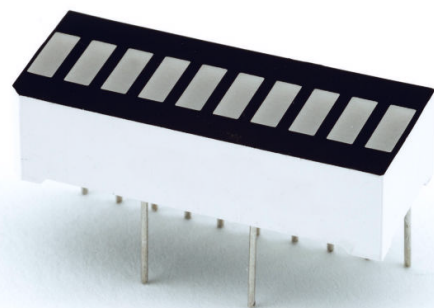
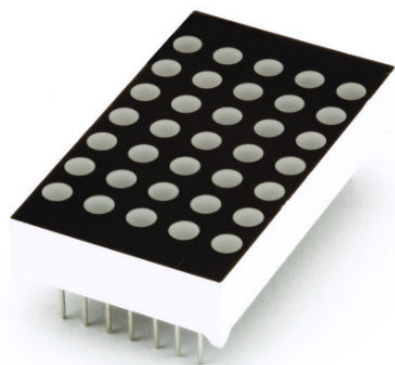
Electrical / Optical Characteristic @ Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition	Grade
Luminous Intensity	I _v		21937		ucd	I _F =20mA	
Dominant Wavelength	λ _d		640		nm	I _F =20mA	
Spectral Line Half-Width	△λ		15		nm	I _F =20mA	
Forward Voltage	V _F	3.6	4.0	4.6	V	I _F =40mA	
Reverse Current	I _R			100	μA	V _R =10V	
Luminous Intensity Matching Rate	I _v -m			2.0:1		I _F =40mA	

The DISPLAYS should be kept at 30°C or less and 60%RH or less. The DISPLAYS should be used within one year.

Dot Matrix Display Light Bar

Part Number Formation



Example

T O M - 2 0 8 8 B G - 1 N

Taiwan Oasis

Model Number

Column Number

Row Number

Display Mode

Code	Mode
M	▶ Dot Matrix
A	▶ Light Bar

Drive Mode

Code	On Row
A, C, E...	▶ Common Cathode
B, D, F...	▶ Common Anode
Z	▶ Universal

Color

Code	Color
R	▶ Red
G	▶ Green
E	▶ Orange
Y	▶ Yellow
EG	▶ Multi Color
EGB,RGB	▶ Full Color
MG	▶ Ultra Green
MY	▶ Ultra Yellow
MA	▶ Ultra Amber
ME	▶ Ultra Orange
MR	▶ Ultra Red
MB	▶ High Blue
MP	▶ Pure Green
W	▶ White

Pin Length

Code	Pin Length (As Shown In Catalogue)
None	▶ Same Length
0	▶ Longer Than 2.72mm
1	▶ Longer Than 1.98mm
2	▶ Longer Than 1.72mm
3	▶ Longer Than 2.52mm
4	▶ Longer Than 4.72mm
5	▶ Longer Than 7.50mm
6	▶ Longer Than 10.72mm
7	▶ Longer Than 22.72mm
8	▶ Square Pin
9	▶ Flat Pin

Reflector Face Color /
Segment Epoxy Color

Code	Color
N	▶ Gray/White
B	▶ Black/White
R	▶ Red/White
H	▶ Blue/White
W	▶ White/White
E	▶ Gray/Red
D	▶ Black/Red
A	▶ Red/Red
K	▶ White/Red
G	▶ Gray/Green
F	▶ Black/Green
P	▶ White/Green
O	▶ Black/Orange
Y	▶ Gray/Yellow
Z	▶ Black/Yellow
T	▶ White/Yellow