

# TOS-1103BH-B

## Single Digit Display LED

Part Number	Chip		Face Color	Segment Color
	Material	Source Color		
TOS-1103BH-B	GaAlAs	Hi-red	Black	White

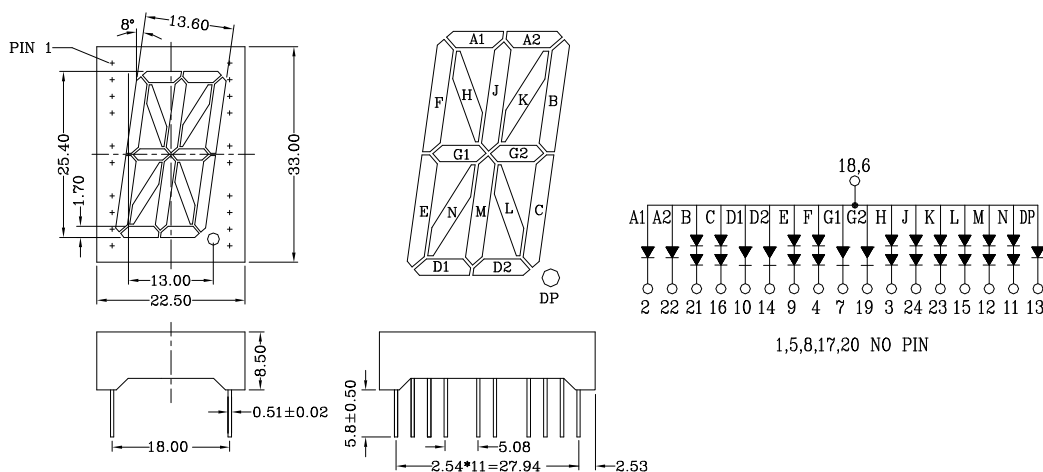
### Features

- (1.0") 25.40mm digit height
- Common anode
- I.C. compatible
- Low power requirement
- RoHS compliant

### Applications

- Audio equipment
- Instrument panels
- Digital read out display

### Package Dimensions & Internal Circuit Diagram



#### Notes:

1. All dimensions are in millimeters, tolerance:  $\pm 0.25$  ; 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)	80	mA
Power Dissipation Per Chip	75	mW
Continuous Forward Current Per Chip	20	mA
Recommend Operating Current Per Chip	12	mA
Reverse Voltage Per Chip	5	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
Dominant Wavelength	$\lambda_d$		660		nm	$I_F=20mA$	
Spectral Line Half-Width	$\Delta\lambda$		20		nm	$I_F=20mA$	
Forward Voltage Per Chip	$V_F$	1.7	1.8	2.0	V	$I_F=20mA$	
Reverse Current Per Chip	$I_R$			20	$\mu A$	$V_R=5V$	
Luminous Intensity Matching Rate	lv-m			1.5:1		$I_F=20mA$	

The DISPLAY's should be kept at 30°C or less and 60%RH or less. The DISPLAYS should be used with in one year