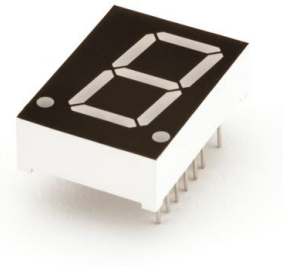


# TOS-8102BMR-B

## Single Digit Display LED

Part Number	Chip		Face Color	Segment Color
	Material	Source Color		
TOS-8102BMR-B	AlGaInP	Ultra-red	Black	White



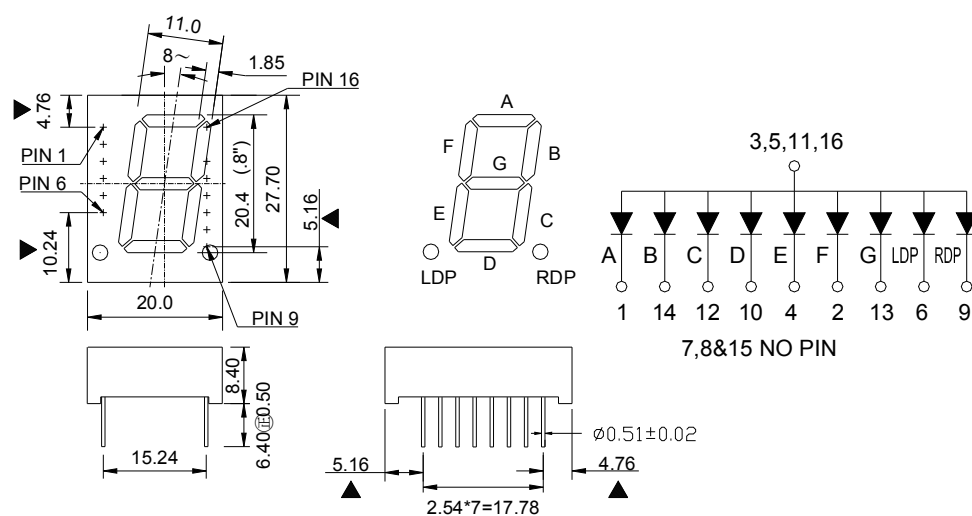
### Features

- (0.80") 20.40mm 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 PerDice	75	mW
Continuous Forward Current	20	mA
Recommend Operating Current	12	mA
Reverse Voltage PerDice	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	$\lambda_d$		630		nm	$I_F=20mA$	
Spectral Line Half-Width	$\Delta\lambda$		15		nm	$I_F=20mA$	
Forward Voltage	$V_F$	1.8	2.0	2.3	V	$I_F=20mA$	
Reverse Current	$I_R$			100	$\mu A$	$V_R=5V$	
Luminous Intensity Matching Rate	lv-m			2.0:1		$I_F=20mA$	

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