

# TOS-12101BMEMG-B

## Single Digit Display LED

Part Number	Chip		Face Color	Segment Color
	Material	Source Color		
TOS-12101BMEMG-B	AlGaInP	Ultra orange    Ultra green	Black	White

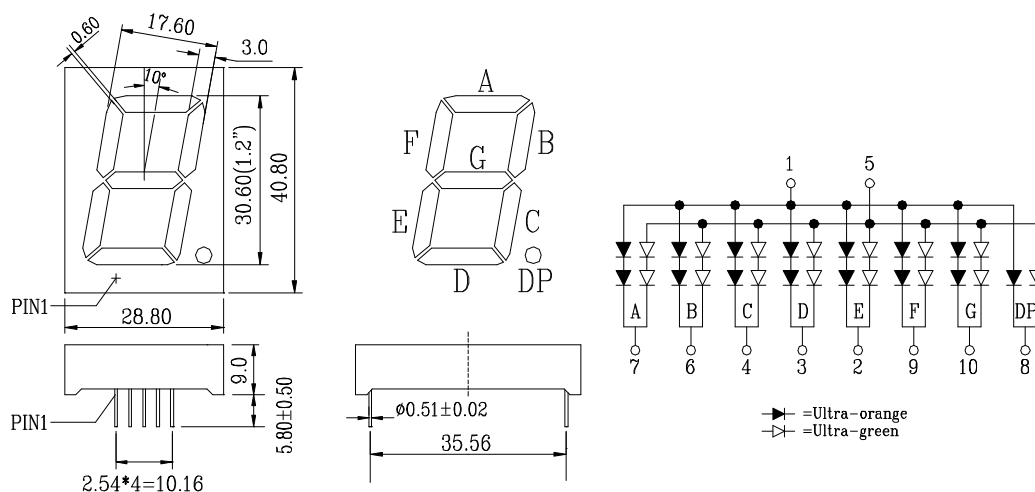
### Features

- (1.20") 30.60mm 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
Luminous Intensity	I <sub>v</sub>		32907		ucd	I <sub>F</sub> =20mA	
Dominant Wavelength (ME)	λ <sub>d</sub>		623		nm	I <sub>F</sub> =20mA	
Dominant Wavelength (MG)	λ <sub>d</sub>		572		nm	I <sub>F</sub> =20mA	
Spectral Line Half-Width(ME)	Δλ		17		nm	I <sub>F</sub> =20mA	
Spectral Line Half-Width(MG)	Δλ		15		nm	I <sub>F</sub> =20mA	
Forward Voltage Per Chip	V <sub>F</sub>	1.8	2.0	2.3	V	I <sub>F</sub> =20mA	
Reverse Current Per Chip	I <sub>R</sub>			100	μA	V <sub>R</sub> =5V	
Luminous Intensity Matching Rate	I <sub>v</sub> -m			2.0:1		I <sub>F</sub> =20mA	