

TOS-F3102BME-N

SMD Display LED

Part Number	Chip		Face Color	Segment Color
	Material	Source Color		
TOS-F3102BME-N	AlGaInP	Ultra-orange	Gray	White

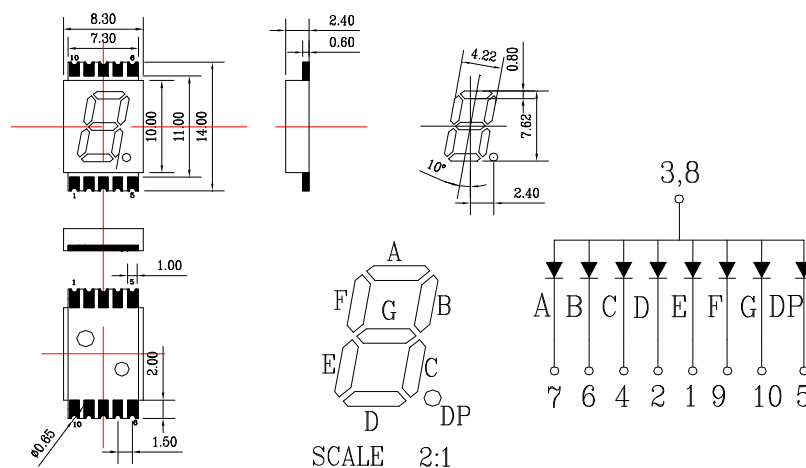
Features

- (0.30") 7.62mm digit height
- Common anode
- I.C. compatible
- Low power consumption
- RoHS compliant

Applications

- Audio equipment
- Instrument panels
- Digital read out display

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.

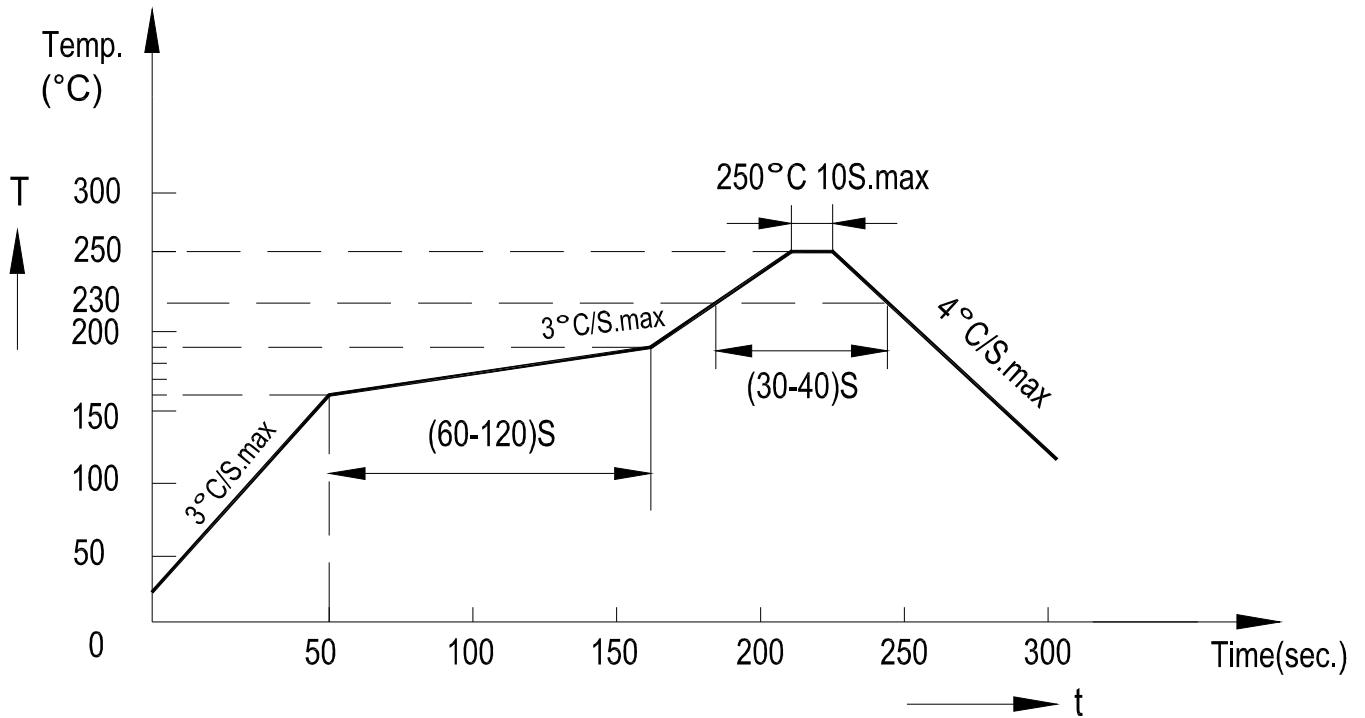
Absolute Maximum Rating @ Ta=25°C

Parameter	Maximum Rating	Unit
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	80	mA
Power Dissipation	75	mW
Continuous Forward Current	20	mA
Recommend Operating Current	12	mA
Reverse Voltage	5	V
Operating Temperature Range	-25°C to +85°C	
Storage Temperature Range	-30°C to +85°C	
Lead-Free Solder Temperature	260°C for 3 Sec	

Electrical / Optical Characteristic @ Ta=25°C

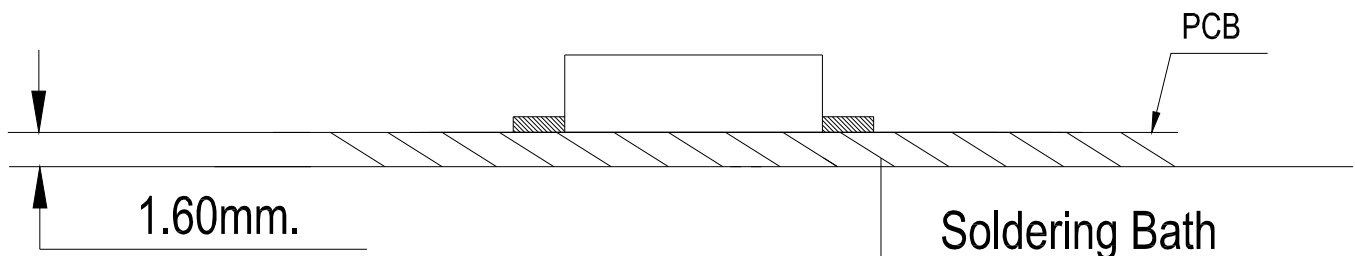
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition	Grade
Luminous Intensity	I _v		21937		ucd	I _F =10mA	
Dominant Wavelength	λ _d		623		nm	I _F =20mA	
Spectral Line Half-Width	Δλ		17		nm	I _F =20mA	
Forward Voltage	V _F	1.8	2.0	2.3	V	I _F =20mA	
Reverse Current	I _R			50	μA	V _R =5V	
Luminous Intensity Matching Rate	I _v -m			2.0:1		I _F =20mA	

Soldering Profile

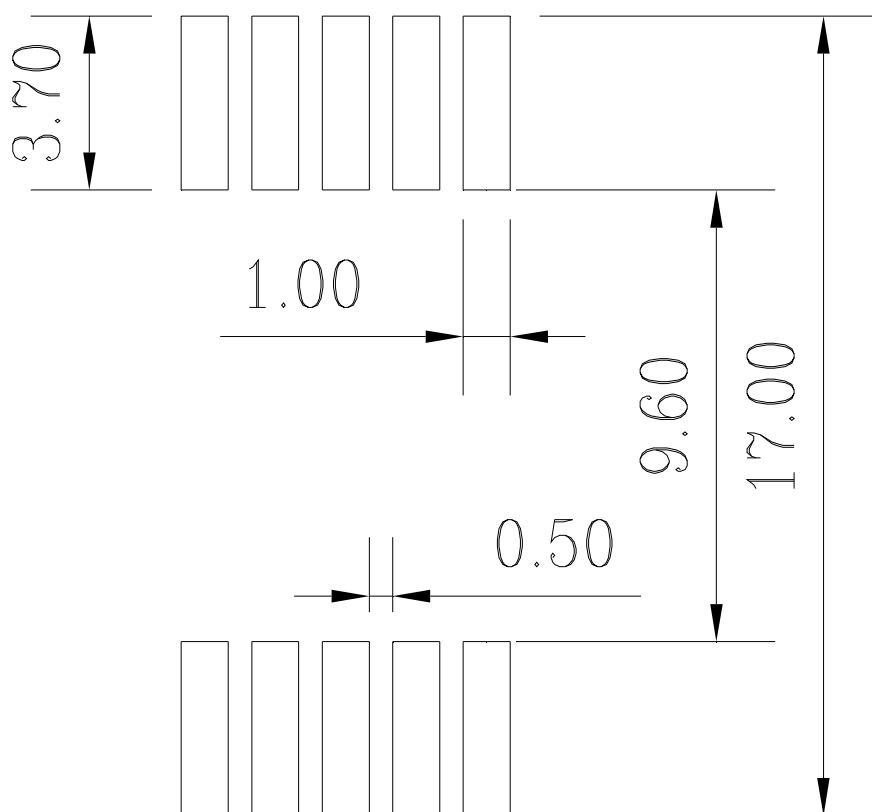


Number of reflow process shall be 2 times or less

1. Manual soldering temperature : Max 320°C for 3 Sec.
2. Can be second manual soldering, but must be cooling before second manual soldering, In order to guarantee the soldered area is to be smoothly covered with soldering, can delay the soldering time, but not to exceed 20s every pad, because if that, the pad will be damaged.
3. The minimum distance of display seating plan to soldering bath is 1.6mm.
4. Don't cause stress to the epoxy resin while it is exposed to high temperature.



Recommended Soldering Pattern and Storage Condition



1. This part is a moisture sensitive device, According to JEDEC level 4.
2. The storage condition of packed: $\leq 40^{\circ}$ / 90%RH, 12 months or $\leq 10\%$ RH.
3. The storage condition of unpacked: $\leq 30^{\circ}$ / 60%RH, 72 Hrs or $\leq 10\%$ RH.

This part can endure ultrasonic cleaning, the solvent hydrocarbon is suitable but isopropyl-alcohol base is not.