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F-TOS-F3102AMRL-N-1-HF

SMD Display LED

Part Number	(Chip	Face	Segment Color	
	Material	Source Color	Color		
F-TOS-F3102AMRL-N-1-HF	AlGaInP	Ultra-red	Gray	White	

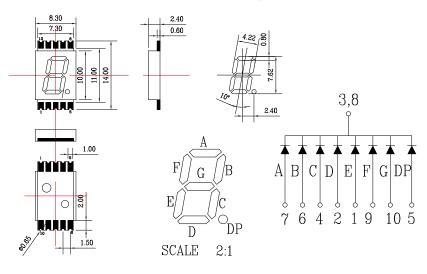
Features

- (0.30") 7.62mm digit height
- Common cathode
- 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.

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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 Temperature250°C for 10 Sec				

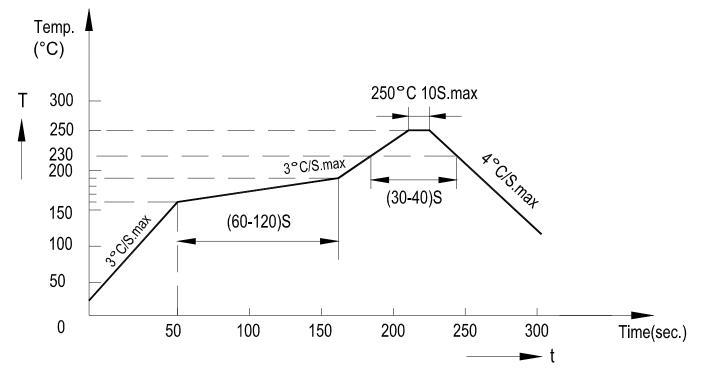
Electrical / Optical Characteristic @ Ta=25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition	Grade
Dominant Wavelength	λ_{d}	635	640	645	nm	I _F =20mA	
Spectral Line Half-Width	Δλ		15		nm	l _⊧ =20mA	
Forward Voltage	V _F	1.8	2.0	2.3	V	I _F =20mA	
Reverse Current	I _R			10	μA	V _R =5V	
Luminous Intensity Matching Rate	lv-m			2.0:1		I _F =20mA	

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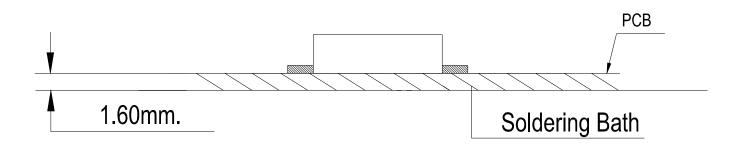
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Soldering Profile



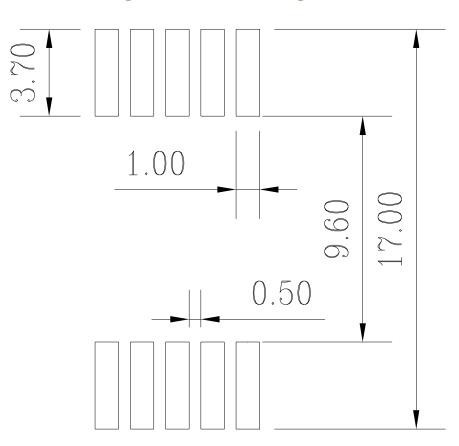
Number of reflow process shall be 2 times or less

- 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.



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Recommended Soldering Pattern and Storage Condition



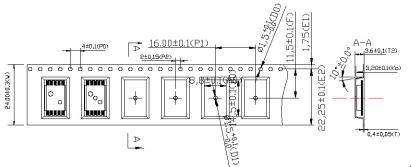
- 1. This part is a moisture sensitive device, According to JEDEC level 4.
- 2. The storage condition of packed: \leq 40° / 90%RH, 12 months or \leq 10%RH.
- 3. The storage condition of unpacked: \leq 30° / 60%RH, 72 Hrs or \leq 10%RH.

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

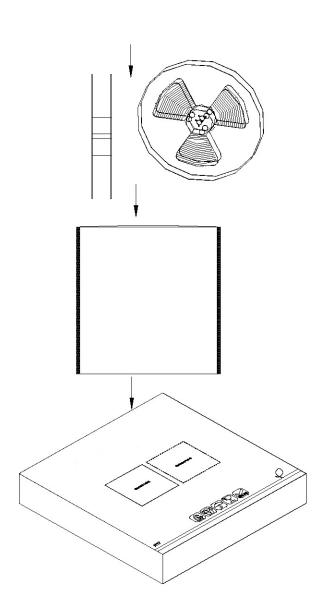
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Package Description



1200 Pcs/ Roll



1200 Pcs/ Box