

CUSTOMER : _____

NO. : MSD-R03917-375

EDIT :

DATE : 2019. 01. 14

SPECIFICATION FOR APPROVAL

PRODUCT : 0.39 INCH SINGLE DIGIT SMD LED DISPLAY RED 3.75mm
PART NO.: MSD-R03917-375

APPROVAL			REVISION
CHK	CHK	APPD.	
REMARKS			



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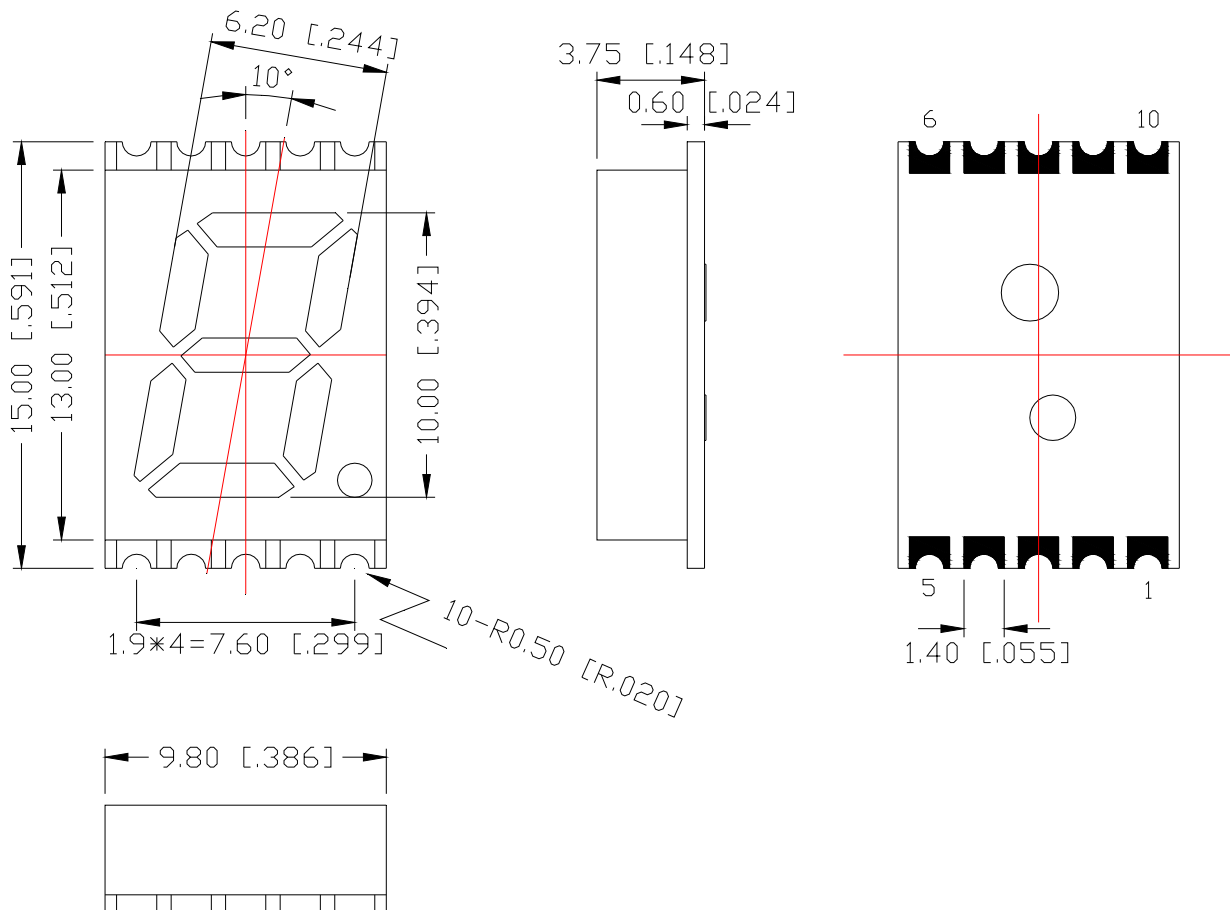
1. DESCRIPTION:

- Gray face, White Epoxy
- Common Cathode Display
- Red Color
- RoHS Compliant

2. FEATURES:

- High intensity and reliability
- High quality, Low power requirement
- IC compatible , Easy assembly
- **ESD1000V**

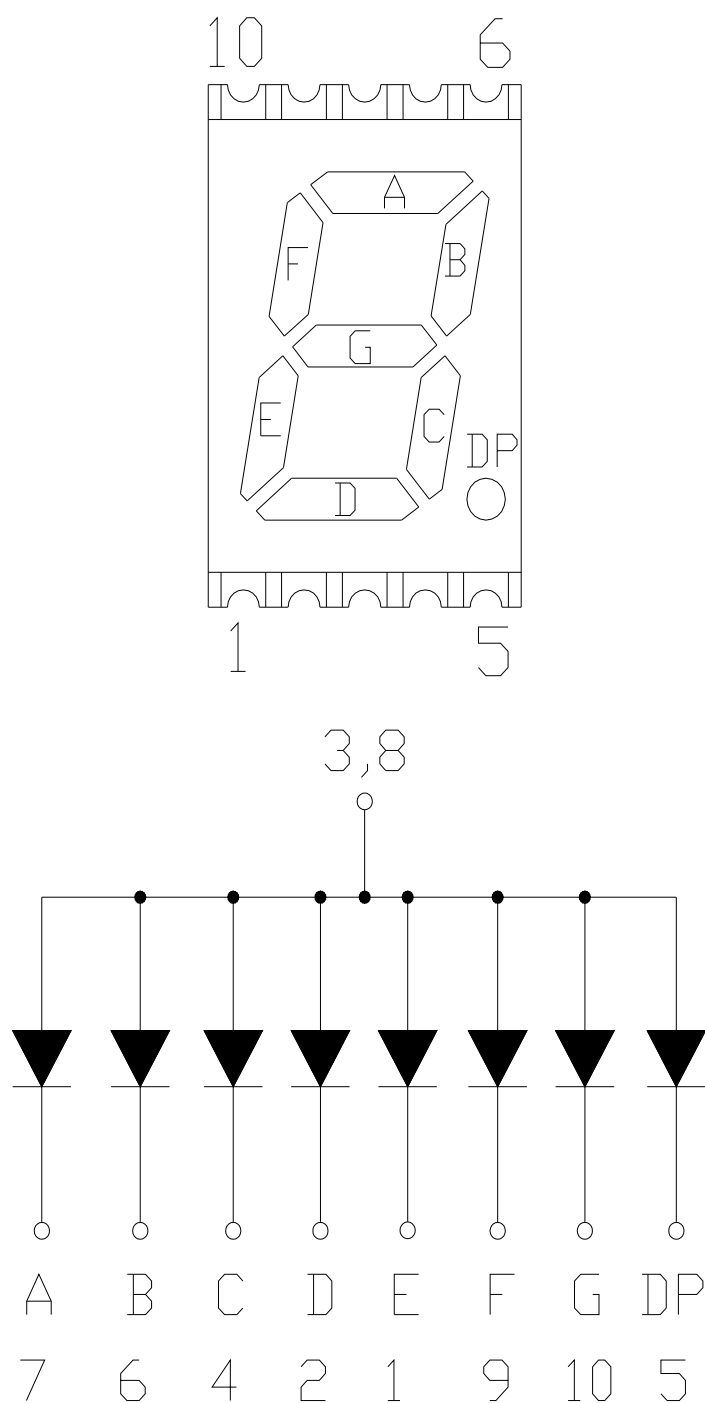
3. Outer Dimension:



NOTES: All dimensions are in millimeters (inches) tolerance are $\pm 0.25\text{mm}(0.010)$ unless otherwise noted



4. INTERNAL CIRCUIT DIAGRAM

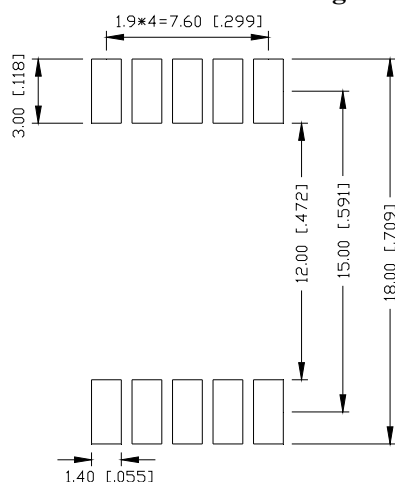


**5. ABSOLUTE MAXIMUM RATINGS AT Ta=25°C:**

PARAMETER	Max.	UNIT
Power Dissipation Per Segment	52	mW
Peak Forward Current Per Segment (1/10duty cycle 0.1ms pulse width)	100	mA
Average Forward Current Per Segment	20	mA
Derating Linear From 25°C Per Segment	0.33	mA/°C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-40°C to + 105°C	
Storage Temperature Range	-40°C to + 105°C	
Lead Soldering Temperature 260°C at 1.6mm From Body for 3 seconds		

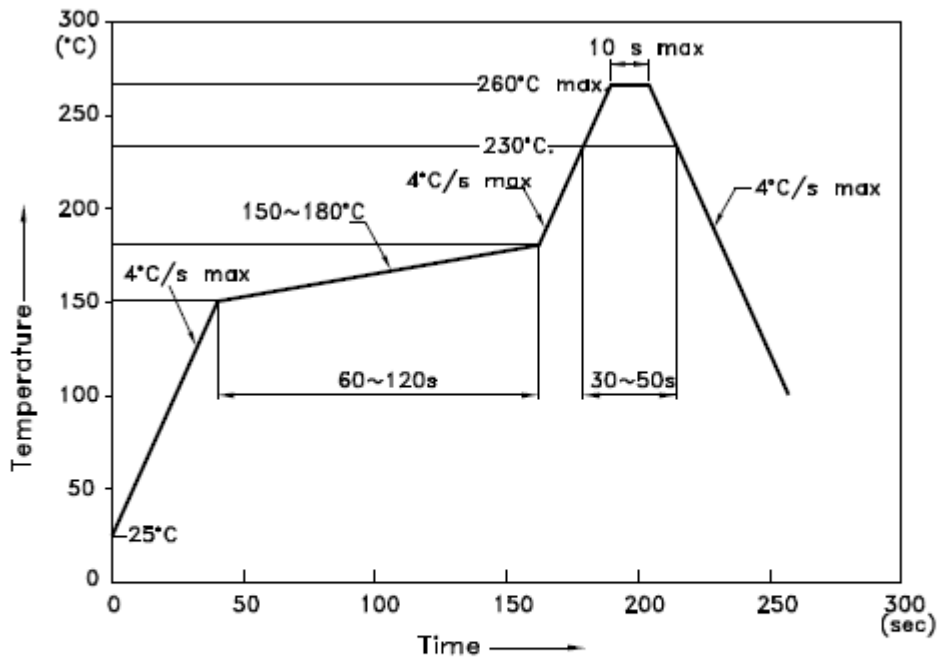
6. ELECTRICAL/OPTICAL CHARACTERISTICS AT Ta=25°C:

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	Test condition
Luminous Intensity Per Segment	I_v	—	15	—	mcd	$I_F=10mA$
Dominant Wavelength	λ_d	—	640	—	nm	$I_F=20mA$
Spectral Line Half-Width	$\Delta\lambda$	—	30	—	nm	$I_F=20mA$
Forward Voltage Per Dice	V_F	—	2.0	2.6	V	$I_F=20mA$
Reverse Current Per Dice	I_R	—	—	10	μA	$V_R=5V$

7. Recommended Soldering Pattern:



8. Recommended SMT condition:



NOTES:

1. We recommend the reflow temperature $245^{\circ}\text{C} (+/-5^{\circ}\text{C})$. The maximum soldering temperature should be limited to 260°C .
2. Don't cause stress to the epoxy resin while it is exposed to high temperature.
3. Number of reflow process shall be 2 times or less.