CUSTOMER :

NO. : MSD-YG05610
EDIT :
DATE : 2019. 01. 14

SPECIFICATION FOR APPROVAL

PRODUCT : 0.56 INCH SINGLE DIGIT SMD LED DISPLAY YELLOW GREEN
PART NO.: MSD-YG05610

APPROVAL			REVISION
CHK	CHK	APPD.	
REMARKS			

MIKWANG ELECTRONICS CO., LTD.
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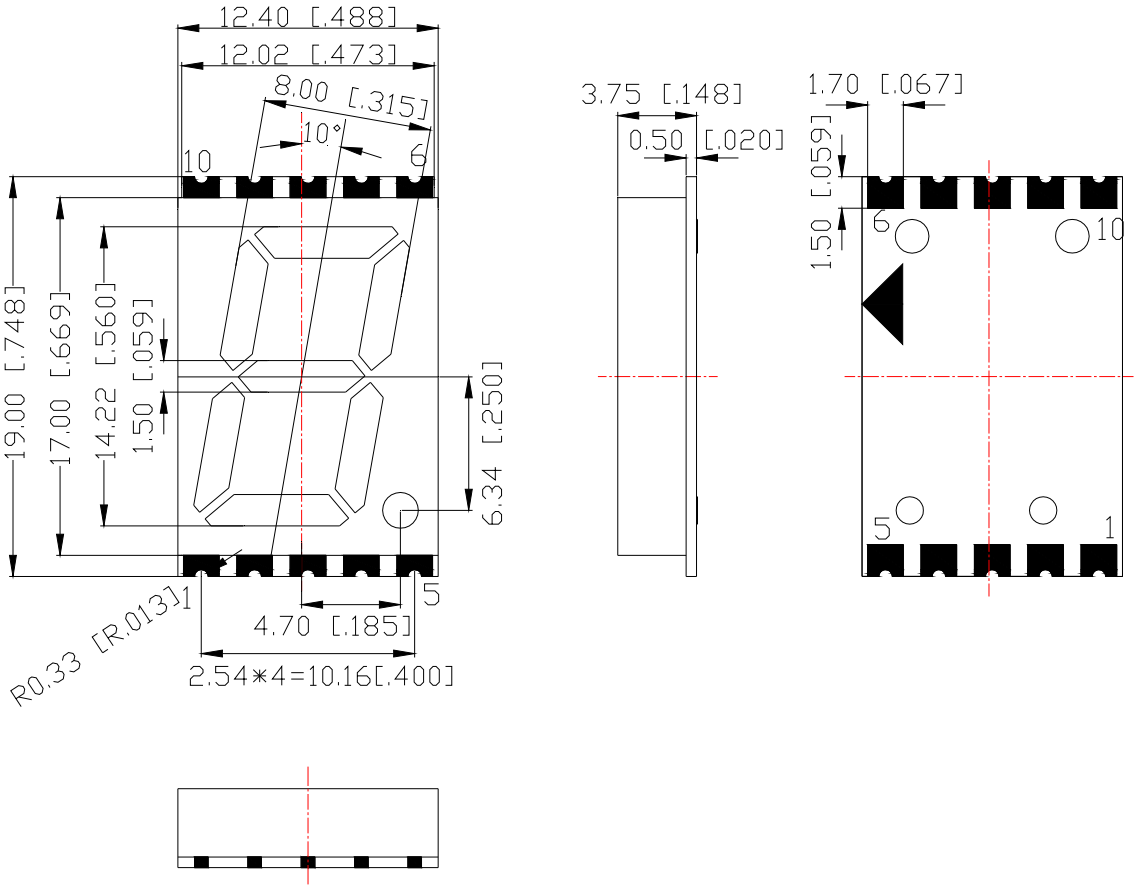
1. DESCRIPTION:

- Gray face, White Epoxy
- Common Anode Display
- Yellow Green Color
- RoHS Compliant

2. FEATURES:

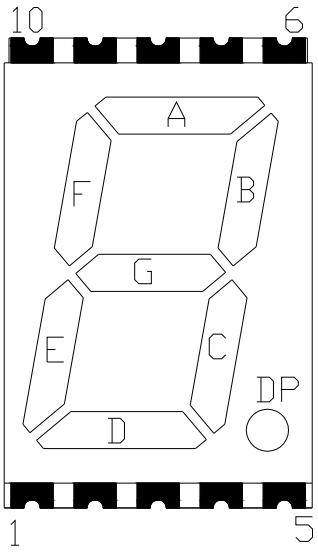
- High intensity and reliability
- High quality, Low power requirement
- IC compatible , Easy assembly
- **ESD1000V**

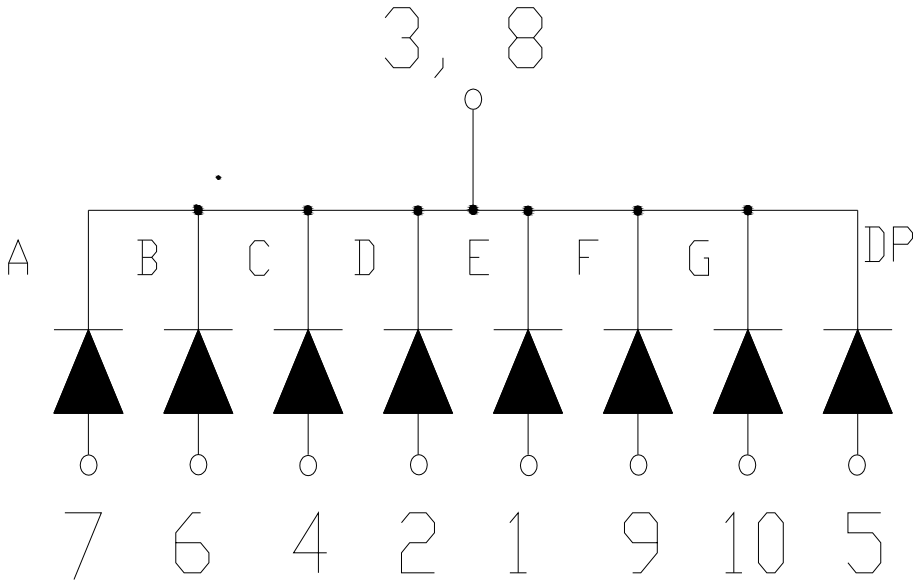
3. Outer Dimension:



NOTES: All dimensions are in millimeters (inches) tolerance are ± 0.25mm(0.010) unless otherwise noted

4. INTERNAL CIRCUIT DIAGRAM





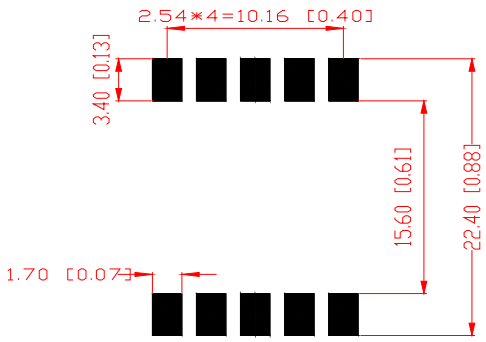
5. ABSOLUTE MAXIMUM RATINGS AT Ta=25°C:

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		

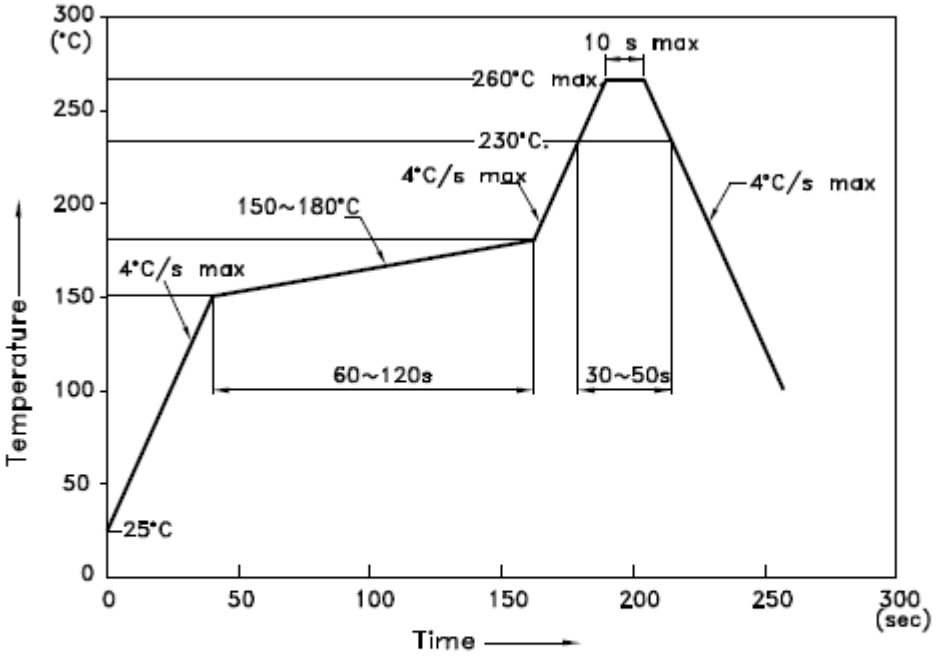
6. ELECTRICAL/OPTICAL CHARACTERISTICS AT Ta=25°C:

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	Test condition
Luminous Intensity Per Segment	I_v	—	**8**	—	**mcd**	I_F=10mA
Dominant Wavelength	λ_D	—	**570**	—	**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	—	—	**50**	**μA**	V_R=5V

7. Recommended Soldering Pattern:



8. Recommended SMT condition：



NOTES:

1.We recommend the reflow temperature 245°C(+/−5°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.