SPECIFICATION

CUSTOMER	
PRODUCT P/N	**UDDD-S020281-AHRSGW**
TYPE	**0.28" Two Digits SMD Display Hyper Red Common Anode Gray Face / White Segment**

■ RECORD OF REVISION

Version	Date	Page	Description
0.0	2015/01/12	All	New document
0.1	2015/23/11	All	Header's name changed

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■ FEATURES

Connecting Form：Common Anode
Lighting Color：Hyper Red

■ ELECTRICAL OPTICAL CHARACTERISTICS (Ta = 25°C):

Parameter	Symbol	Min	Type	Max	Unt	Test Condition
Luminous Intensity	IV	10	20		mcd	IF=20mA
Peak Wavelength	λp		632		nm	IF=20mA
Dominant Wavelength	λd		624		nm	IF=20mA
Spectrum Line Half-Width	△λ		20		nm	IF=20mA
Forward Voltage	Vf	1.9		2.5	V	IF=20mA
Reverse Current	IR			100	uA	V_R=5V
Suggestion Forward Current	IF	3	5-10	20	mA	IF=20mA

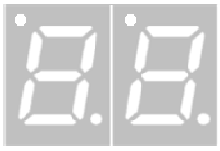
■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Parameter	Rating	Unit
Reverse Voltage	5	V
Power Dissipation Per Dice	60	mW/chip
Operating Temperature Ranger	-40~+80	°C
Storage Humidity	45%~85%	RH
Storage Temperature Ranger	-40~+85	°C
Soldering Temperature	260±5°C For 3 Seconds	
Peak IF(ma) (1/10Duty Cycle 0.1ms Pulse Width)	100	mA/chip
Continuous Forward Current	25	mA/chip

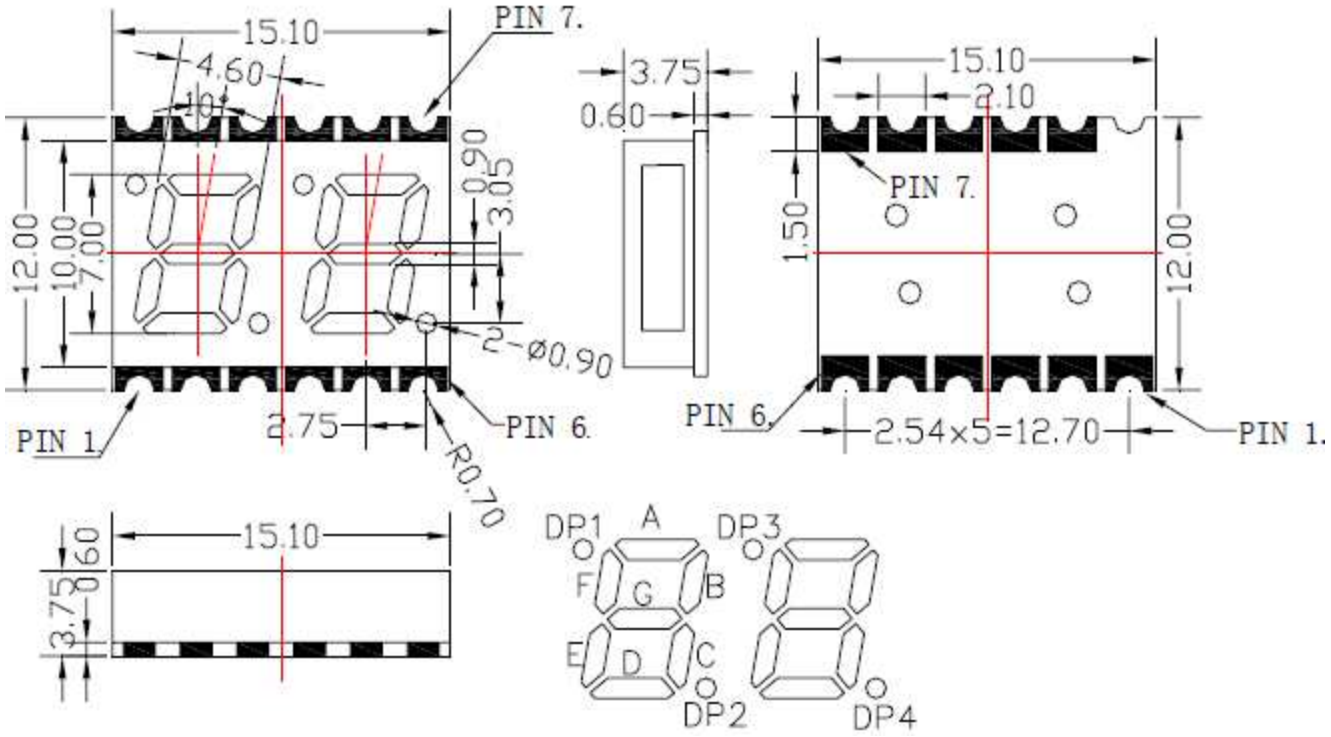
■ SUGGESTED WAY OF USAGE

When using LED it’s circuit adopts current limiting with DC current about 5～20mA, not more than 25mA at maximum

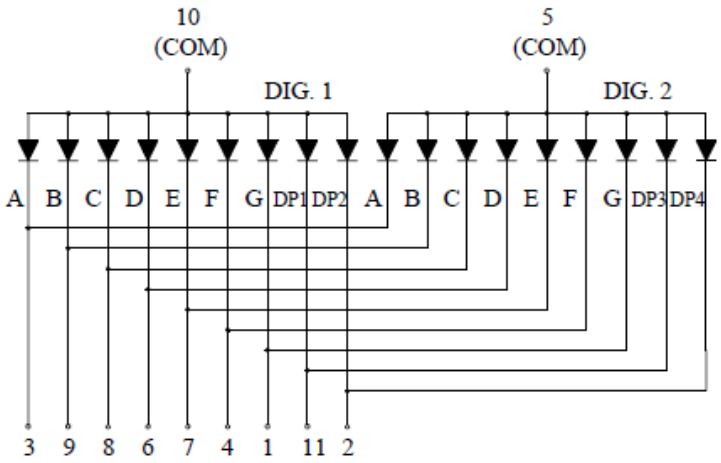
■ FRONT VIEW



■ PACKAGE DIMENSION



■ INTERNAL CIRCUIT DIAGRAM AND SEGMENT POSITION

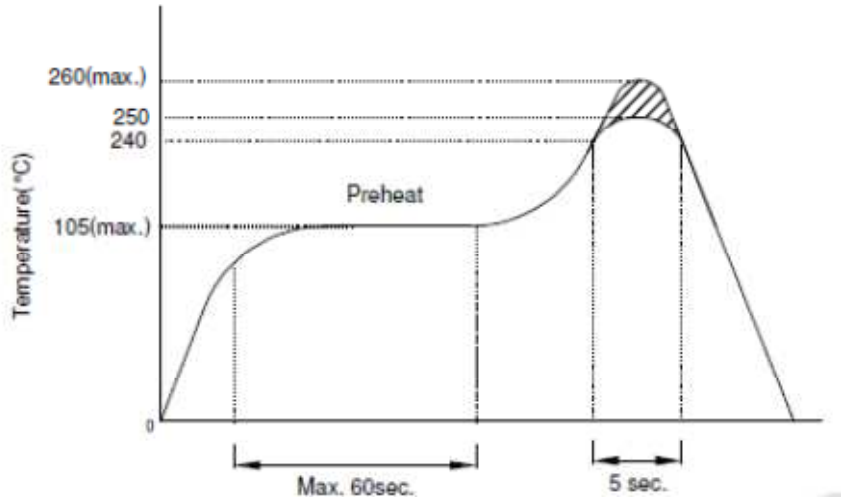


Notes:

a. All dimensions are in millimeters
b. Tolerance are ±0.25mm unless otherwise noted

■ PRECAUTIONS FOR USE

1) Recommended Soldering conditions Wave Soldering



2) Soldering Iron

Basic SPEC. Is ≤ 5sec. When 260°C. If temperature is higher, time should be shorter (+10 °C→ 1 sec.)

Power dissipation of iron should be smaller than 15W,and temperature should be controllable.

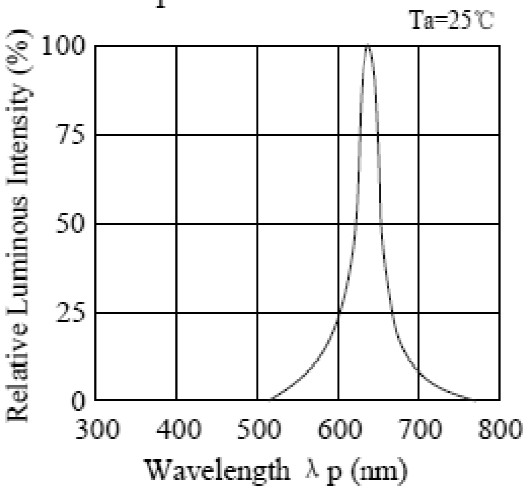
Surface temperature of the device should be under 230°C

3) Rework :

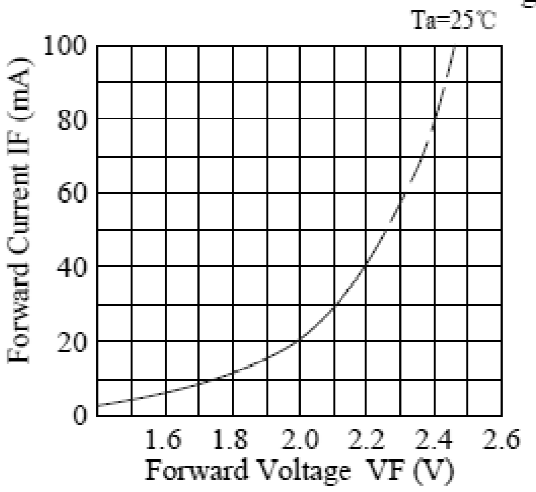
1. Customer must finish rework within 5 sec under 260°C
2. The head of iron cannot touch copper foil.

■ TYPICAL OPTICAL/ELECTRICAL CHARACTERISTICS CURVES (Ta=25°C Unless Otherwise Noted)

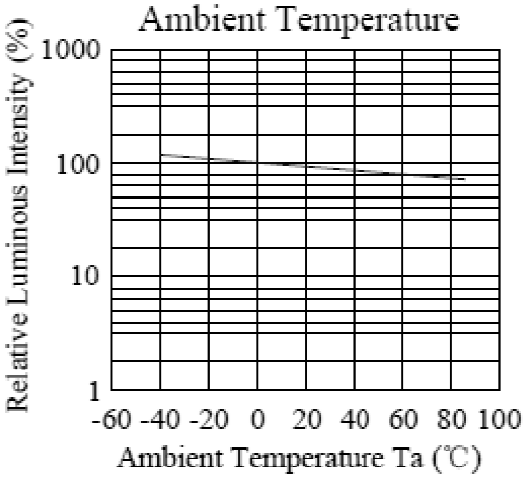
Spectrum Distribution



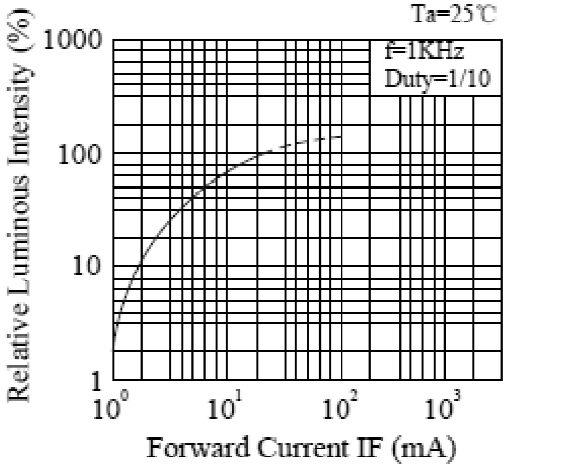
Forward Current & Forward Voltage



Luminous Intensity & Ambient Temperature



Luminous Intensity & Forward Current



Forward Current Derating Curve