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DATA SHEET

PART NO.: SA301G1127

REV: <u>A/1</u>

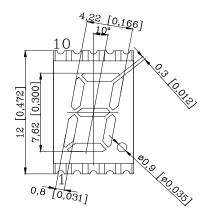
CUSTOMER'S APPROVAL:	DCC:
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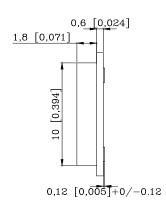


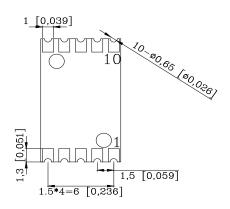
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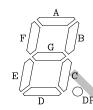
PACKAGE DIMENSIONS

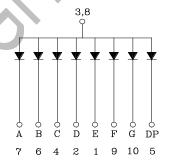




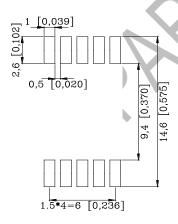








RECOMMENDED SOLDERING PATTERN



NOTES: 1. All dimensions are in millimeters (inches)

- 2. Tolerance is +/- 0.25mm (0.010") unless otherwise specified
- 3. The specifications, electrical characteristics and technical data described in this datasheet are subject to change without prior notice



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FEATURES

- 7.62mm (0.30 inch) DIGIT HEIGHT
- COMMON ANODE
- SMD TYPE
- MOISTURE SENSITIVITY LEVEL: 2a
- LOW POWER CONSUMPTION
- Pb FREE PRODUCT
- GRAY FACE, WHITE SEGMENTS

• 1100PCS/ROL

Raw Material: SMD:GaAlInP/GaAs

ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

SYMBOL	PARAMETER	YELLOW GREEN	UNIT	
PD	Power Dissipation Per Segment	60	mW	
VR	Reverse Voltage Per Segment	5	V	
IAF	Continuous Forward Current Per Segment	25	mA	
IPF	Peak Forward Current Per Segment	90	mA	
	(1/10 Duty Cycle,0.1ms Pulse Width)	80		
Topr	Operating Temperature Range	−40°C to 85°C		
Tstg	Storage Temperature Range	-40°C to 85°C		

ELECTRO-OPTICAL CHARACTERISTICS: (Ta = 25°C)

SYMBOL	PARAMETER	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
VF	Forward Voltage , Per Segment	IF = 20mA		2.1	2.3	V
lr	Reverse Current , Per Segment	VR = 5V		ı	10	μΑ
λР	Peak Emission Wavelength	IF = 20mA		573		nm
λD	Dominant Wavelength	IF = 20mA		570		nm
Δλ	Spectral Line Half—Width	IF = 20mA		20		nm
I۷	Luminous Intensity Per Segment	IF = 10mA	2.0	5.0		mcd

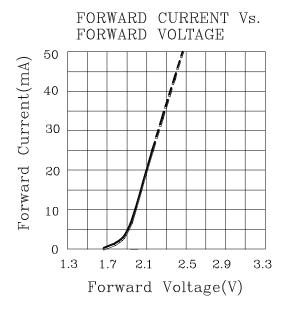
DRAWING NO.: DS-11-19-0010G DATE: 2020-01-13 Page: 3

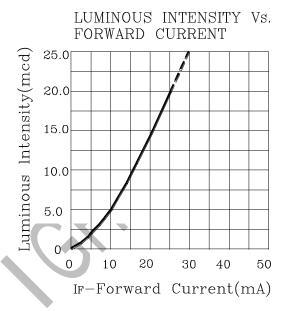
LD-R/RD014

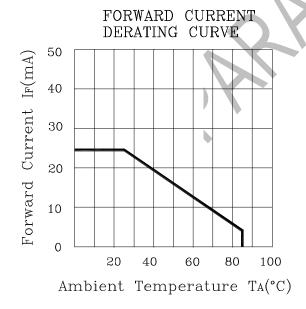


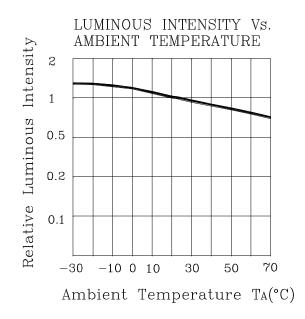
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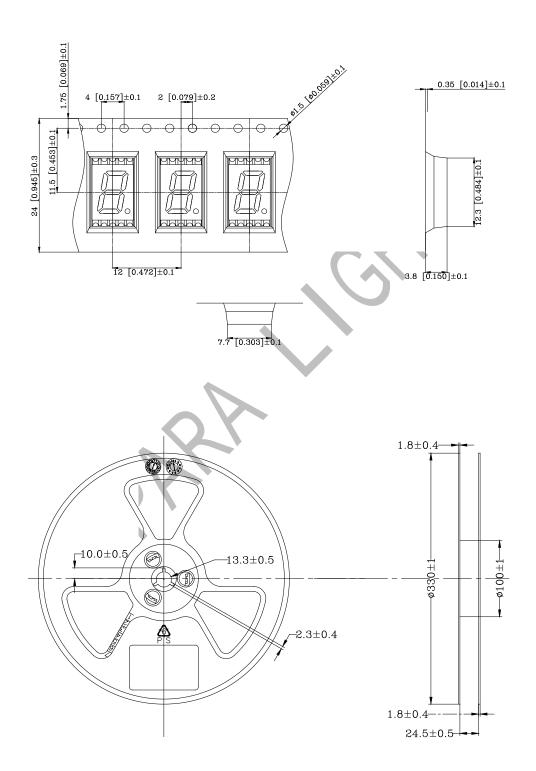




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PACKAGING SPECIFICATIONS



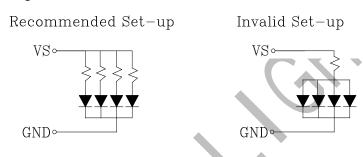


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CIRCUIT DESIGN NOTES

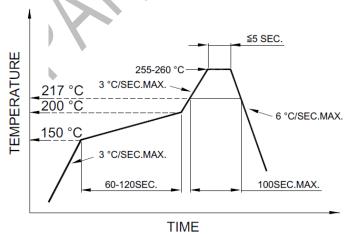
- 1. Protective current-limiting resistors may be necessary to operate the LEDs within the specified range.
- 2. LEDs mounted in parallel should each be placed in series with its own current-limiting resistor.
- 3. The driving circuit should be designed to protect the LED against reverse voltages and transient voltage spikes when the circuit is powered up or shut down.
- 4. The safe operating current should be chosen after considering the maximum ambient temperature of the operating environment.
- 5. Prolonged reverse bias should be avoided, as it could cause metal migration, leading to an increase in leakage current or causing a short circuit.



SMT REFLOW SOLDERING INSTRUCTIONS

SMT Soldering Profile

Pb free reflow soldering Profile



NOTES

- 1. Avoid causing stress to the LEDs while it is exposed to high temperature.
- 2. The maximum number of reflow soldering passes is no more than 2 times.
- Reflow soldering is recommended. Other soldering methods are not recommended as they might cause damage to the product.