



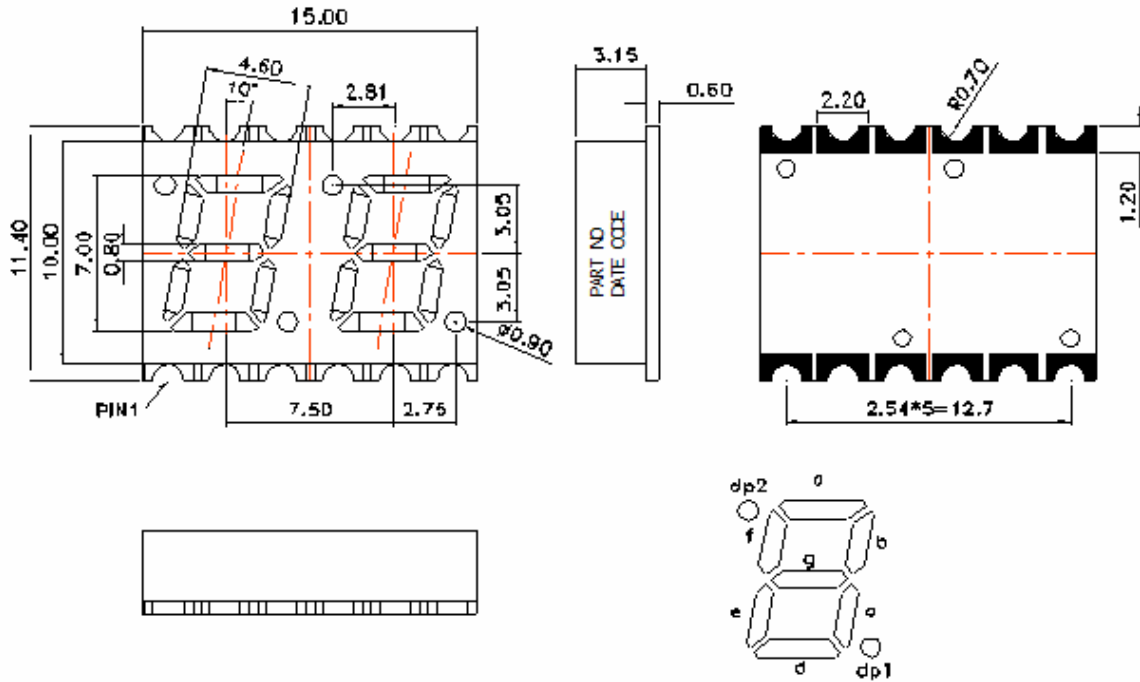
American Opto Plus LED

SMA-282LB G/W

0.28" DUAL DIGIT DISPLAY, C. ANODE

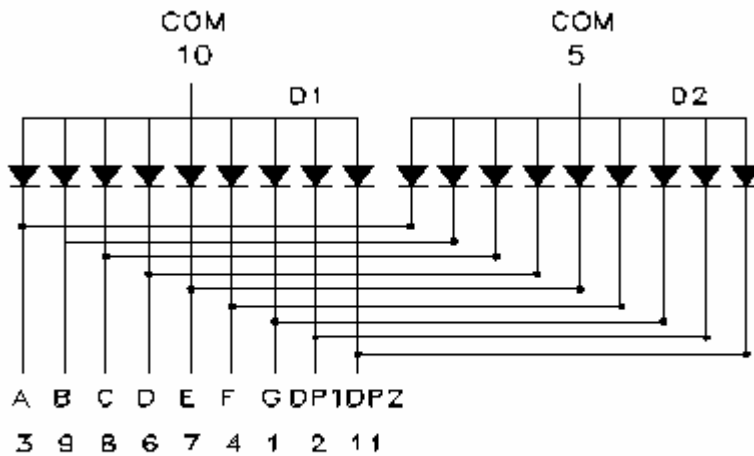
- ❖ 0.28inch (7.0 mm) digit height
- ❖ Low power consumption
- ❖ RoHS Compliance
- ❖ Case mold type

Package Dimensions



- Notes: 1. All dimensions are in millimeters
 2. Tolerance is ± 0.25 mm unless otherwise specified

Internal Circuit Diagram



PIN ON NO.12 NO PIN



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DEVICE SELECTION GUIDE

Part Number	Chip		Face / Segment
	Material	Emitted Color	
SMA-282LB G/W	InGaN/SiC	Blue	Gray / White

ABSOLUTE MAXIMUM RATINGS

(Ta=25°C)

Parameter	Symbol	Max Rating	Unit
Power Dissipation per segment	PAD	100	mW
Derating Linear From 25°C per segment	--	0.25	mA/°C
Peak Current per segment (1/10 Duty Cycle @1KHz)	IAF	100	mA
Continuous Forward Current per segment	IPF	25	mA
Reverse Voltage	VR	5.0	V
Operating Temperature Range	TOPR	-40~+105	°C
Storage Temperature Range	TSTG	-40~+105	°C

Solder temperature 1.6 mm from body for 3 seconds at 260°C

OPTICAL-ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Ave. Luminous Intensity	IV	IF = 10mA	4.1	9.5		mcd
Forward Voltage/segment	VF	IF = 20mA		3.3	4.0	V
Reverse Current/segment	IR	VR = 5V			100	uA
Spectrum Line Half-Width	$\Delta\lambda$	IF = 20mA		22		nm
Emission Wavelength	λ_p/λ_d	IF = 20mA		470		nm

ESD Caution: Static Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.



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Typical Electro-Optical Characteristic Curves (Ambient Temperature: 25°C)

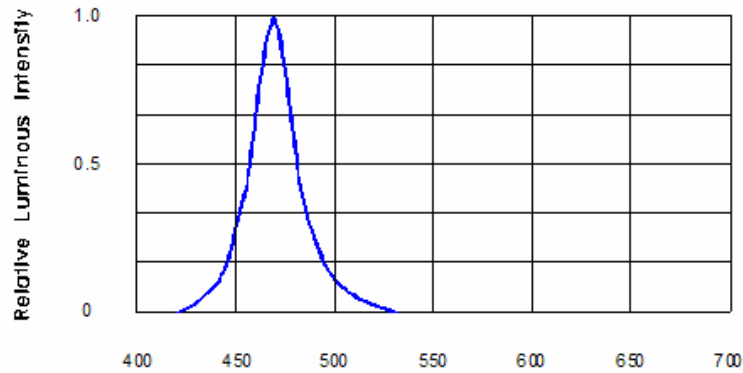


FIG1.RELATIVE LUMINOUS INTENSITY VS.WAVELENGTH

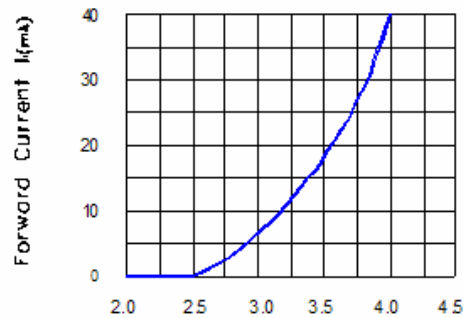


FIG.2 FORWARD Current VS.Forward Voltage

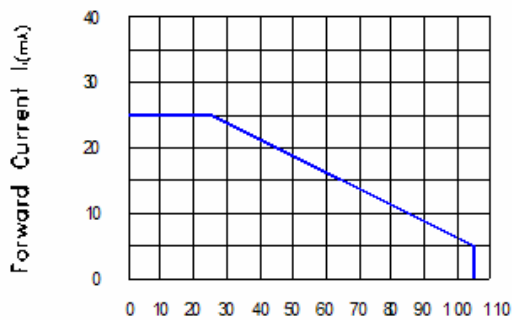


FIG.3 ALLOWABLE DC CURRENT VS.AMBIENT TEMPERATURE

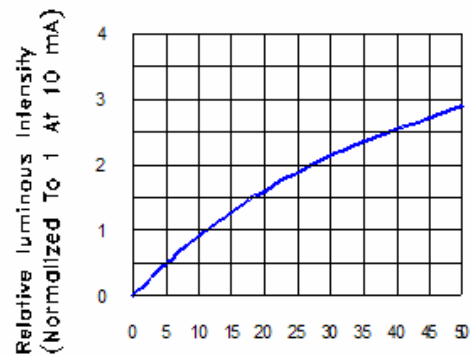


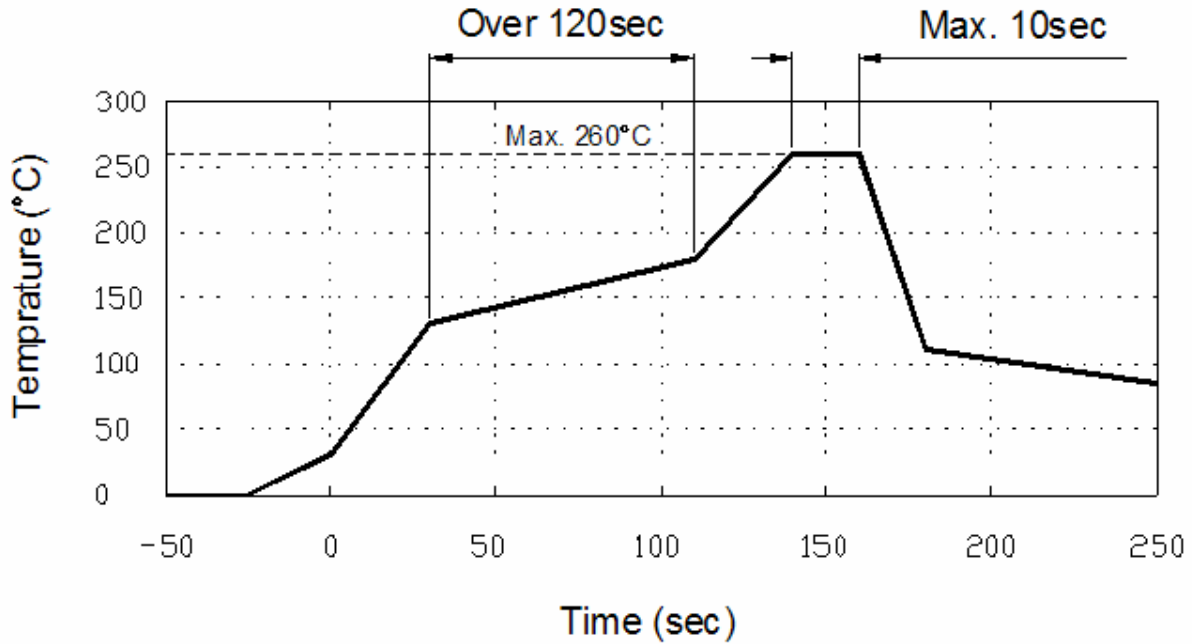
FIG.4 Relative Intensity VS.FORWARD Current



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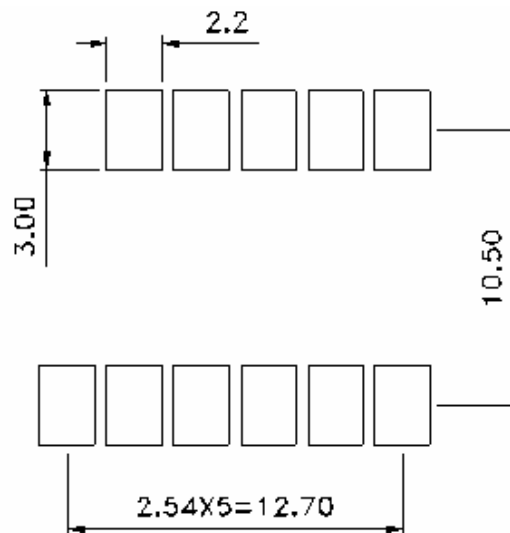
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SMT SOLDERING INSTRUCTION



Number of reflow process shall be less than 2 times, and cooling process to normal temperature is required between the first and the second soldering process.

RECOMMENDED SOLDERING PATTERN (UNIT: mm)





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TAPE and REEL SPECIFICATION (UNIT: mm) 1000/reel

