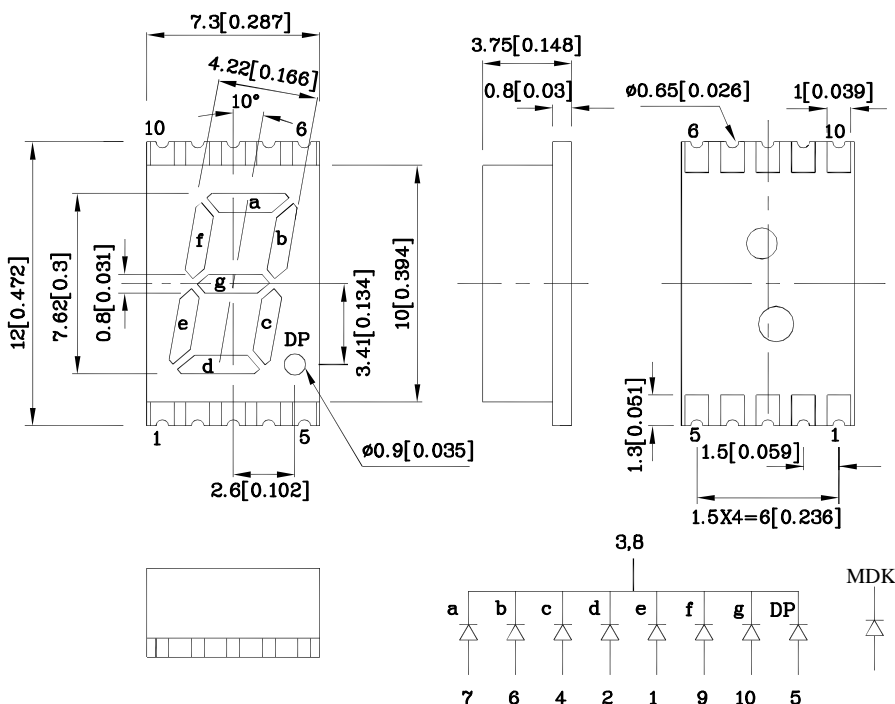


## Features

- 0.3 inch digit height
- Robust package
- Low power consumption
- Standard configuration: Gray face w/ white segments
- Standard Package: 550pcs/ Reel
- MSL (Moisture Sensitivity Level): 2a
- RoHS compliant



## Package Schematics



Notes:

1. All dimensions are in millimeters (inches), Tolerance is  $\pm 0.25(0.01)$  unless otherwise noted.
2. Specifications are subject to change without notice.
3. The gap between the reflector and PCB shall not exceed 0.25mm.

Absolute Maximum Ratings (T <sub>A</sub> =25°C)		MDK (AlGaInP)	Unit
Reverse Voltage	V <sub>R</sub>	5	V
Forward Current	I <sub>F</sub>	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i <sub>FS</sub>	185	mA
Power Dissipation	P <sub>D</sub>	75	mW
Operating Temperature	T <sub>A</sub>	-40 ~ +85	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +85	

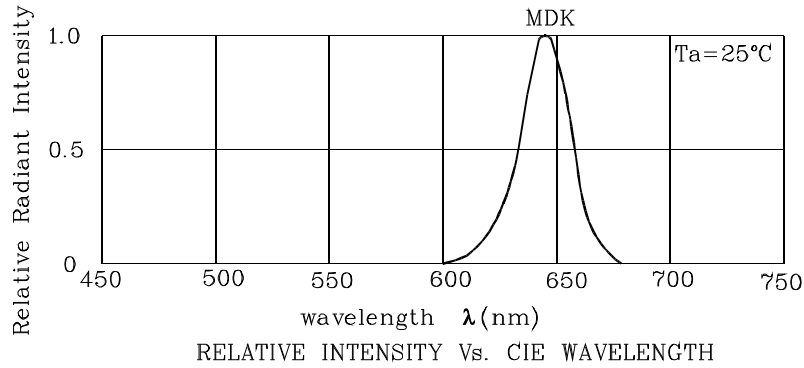
Operating Characteristics (T <sub>A</sub> =25°C)		MDK (AlGaInP)	Unit
Forward Voltage (Typ.) (I <sub>F</sub> =10mA)	V <sub>F</sub>	1.85	V
Forward Voltage (Max.) (I <sub>F</sub> =10mA)	V <sub>F</sub>	2.5	V
Reverse Current (Max.) (V <sub>R</sub> =5V)	I <sub>R</sub>	10	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) (I <sub>F</sub> =10mA)	λP	645*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I <sub>F</sub> =10mA)	λD	630*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I <sub>F</sub> =10mA)	Δλ	28	nm
Capacitance (Typ.) (V <sub>F</sub> =0V, f=1MHz)	C	35	pF

Part Number	Emitting Color	Emitting Material	Luminous Intensity CIE127-2007* (I <sub>F</sub> =10mA) ucd		Wavelength CIE127-2007* nm λP	Description
			min.	typ.		
XZFMDK07C	Red	AlGaInP	14000 3600*	26990 6390*	645*	Common Cathode, Rt. Hand Decimal.

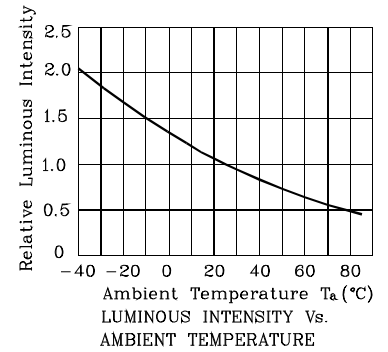
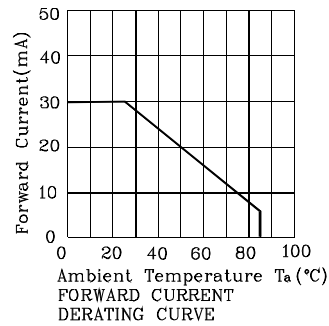
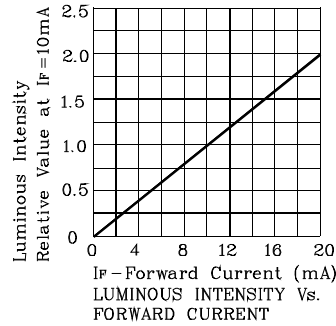
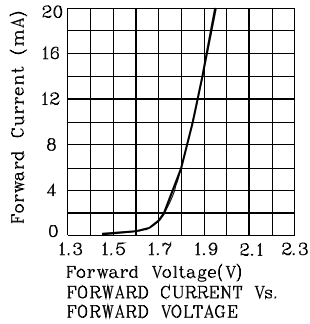
\*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

Jan 07, 2014

XDSA9167 V6-X Layout: Maggie L.

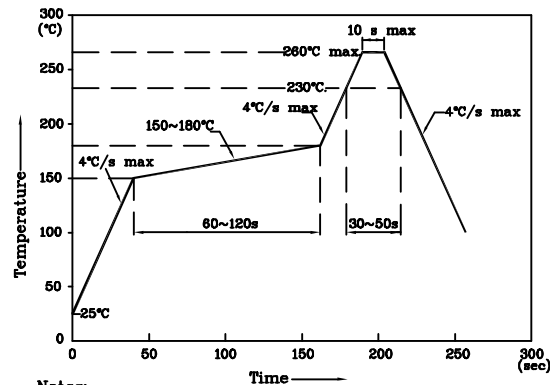


#### ❖ MDK

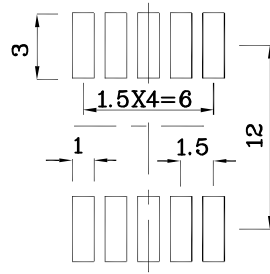


**LED is recommended for reflow soldering and soldering profile is shown below.**

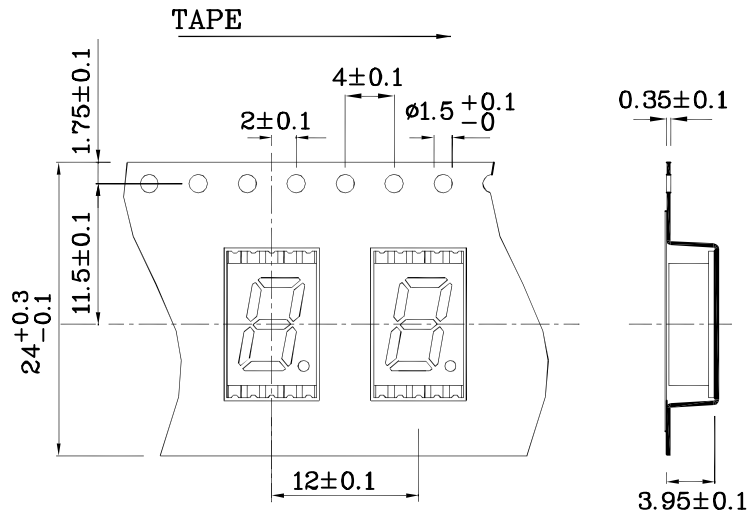
#### Reflow Soldering Profile for SMD Products (Pb-Free Components)



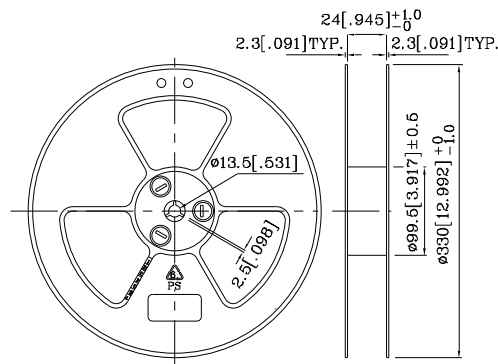
❖ Recommended Soldering Pattern (Units : mm; Tolerance:  $\pm 0.15$ )



❖ Tape Specification (Units : mm)



❖ Reel Dimension



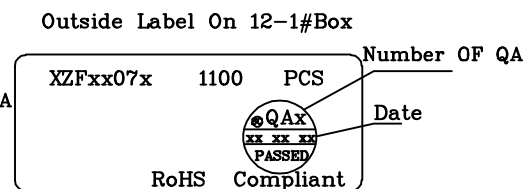
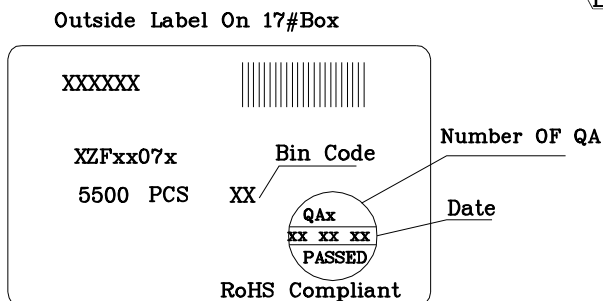
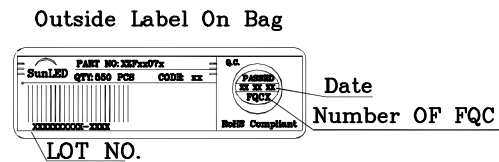
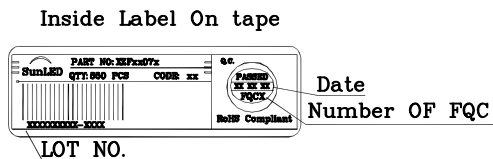
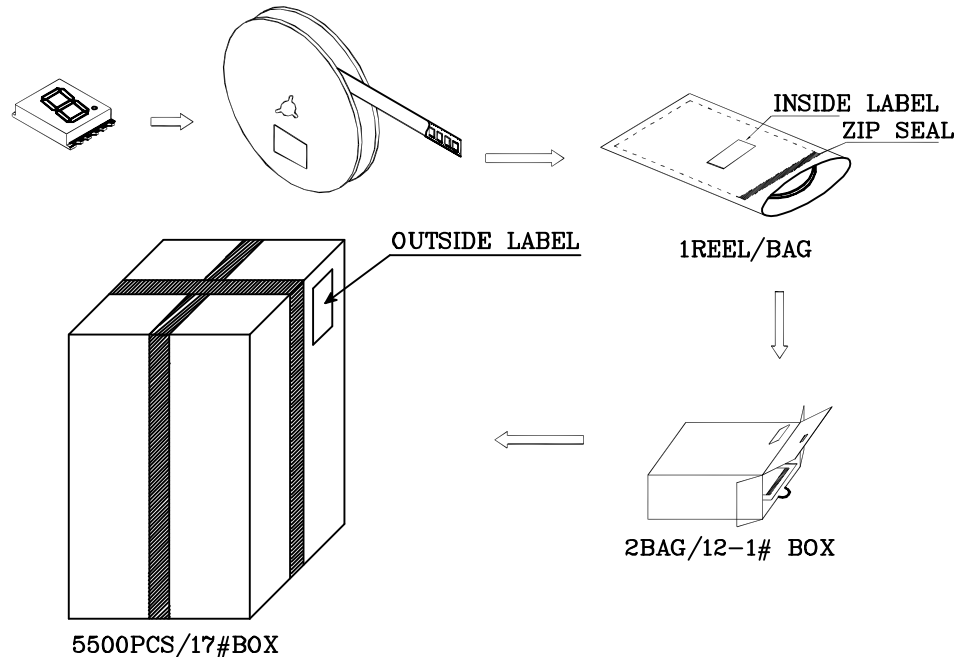
Remarks:

If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength:  $\pm 1$ nm
2. Luminous intensity / luminous flux:  $\pm 15\%$
3. Forward Voltage:  $\pm 0.1$ V

Note: Accuracy may depend on the sorting parameters.

## PACKING & LABEL SPECIFICATIONS



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2. Contents within this document are subject to improvement and enhancement changes without notice.
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