

Excellent Integrated System Limited

Stocking Distributor

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[SunLED](#)
[XZFAMDK10C](#)

For any questions, you can email us directly:

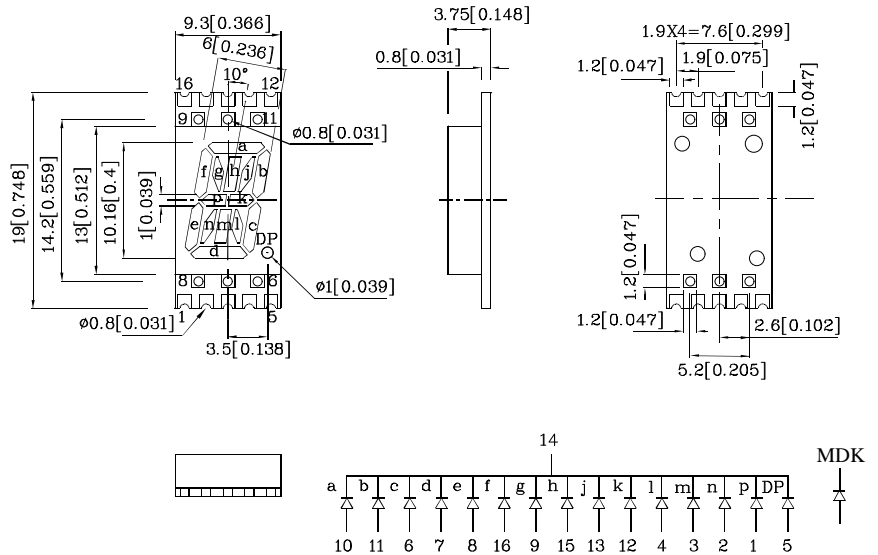
sales@integrated-circuit.com

Features

- 0.4 inch digit height
- Robust package
- Low power consumption
- Standard configuration: Gray face w/ white segments
- Standard Package: 400pcs/ Reel
- MSL (Moisture Sensitivity Level): 2a
- RoHS compliant



Package Schematics



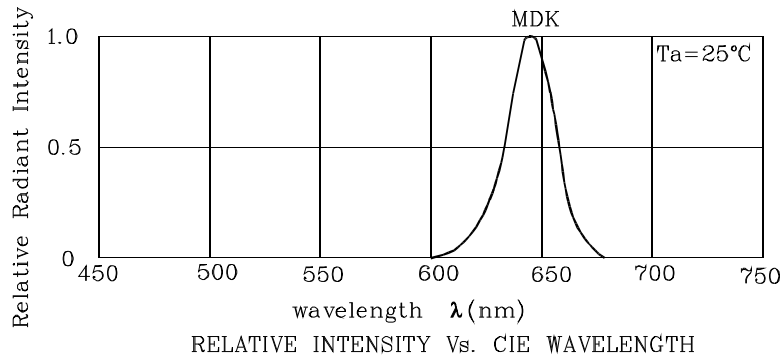
Notes:
 1. All dimensions are in millimeters (inches), Tolerance is $\pm 0.25(0.01)$ unless otherwise noted.
 2. Specifications are subject to change without notice.
 3. The gap between the reflector and PCB shall not exceed 0.25mm.

Absolute Maximum Ratings (T _A =25°C)		MDK (AlGaInP)	Unit
Reverse Voltage	V _R	5	V
Forward Current	I _F	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i _{FS}	185	mA
Power Dissipation	P _D	75	mW
Operating Temperature	T _A	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +85	

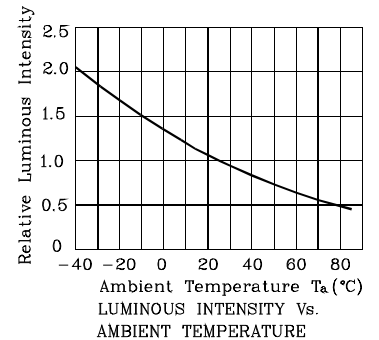
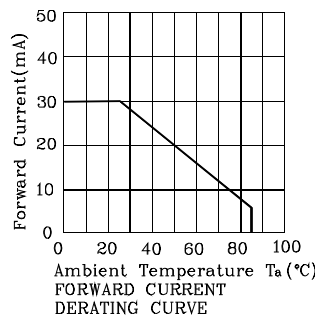
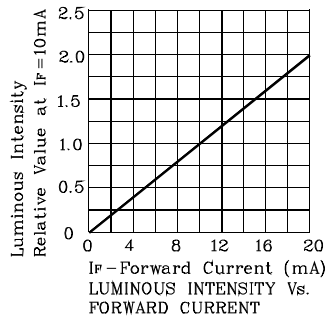
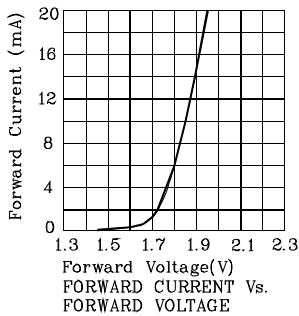
Operating Characteristics (T _A =25°C)		MDK (AlGaInP)	Unit
Forward Voltage (Typ.) (I _F =10mA)	V _F	1.85	V
Forward Voltage (Max.) (I _F =10mA)	V _F	2.5	V
Reverse Current (Max.) (V _R =5V)	I _R	10	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =10mA)	λ _P	645*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =10mA)	λ _D	630*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =10mA)	Δλ	28	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	C	35	pF

Part Number	Emitting Color	Emitting Material	Luminous Intensity CIE127-2007* (I _F =10mA) ucd		Wavelength CIE127-2007* nm λ _P	Description
			min.	typ.		
XZFAMDK10C	Red	AlGaInP	14000 3600*	35990 8290*	645*	Common Cathode, Rt.Hand Decimal.

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

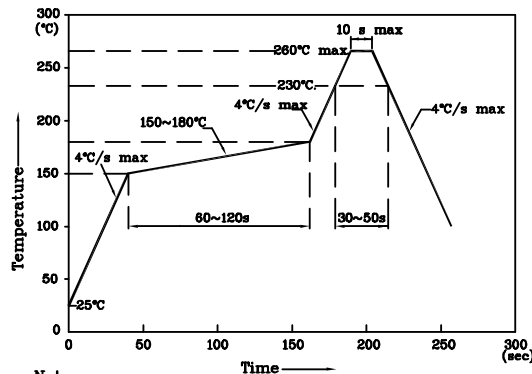


❖ MDK



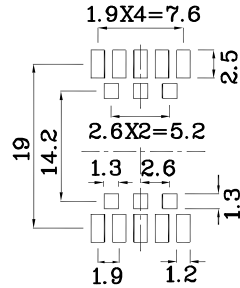
LED is recommended for reflow soldering and soldering profile is shown below.

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

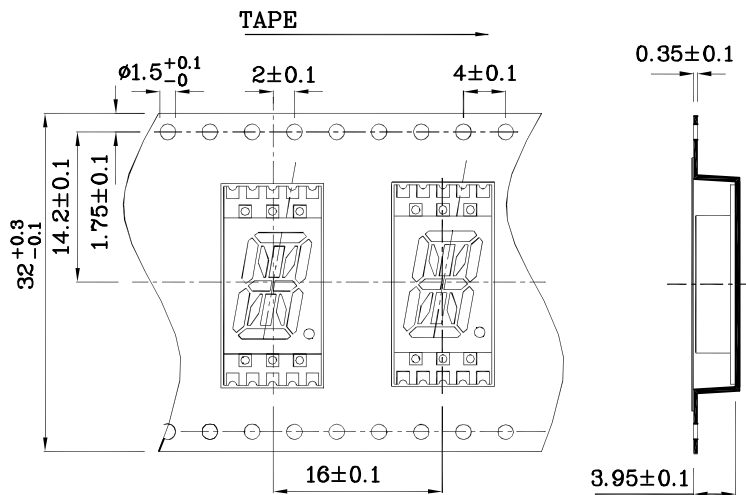


- Notes:**
1. Maximum soldering temperature should not exceed 280°C
 2. Recommended reflow temperature: 145°C-280°C
 3. Do not put stress to the epoxy resin during high temperatures conditions

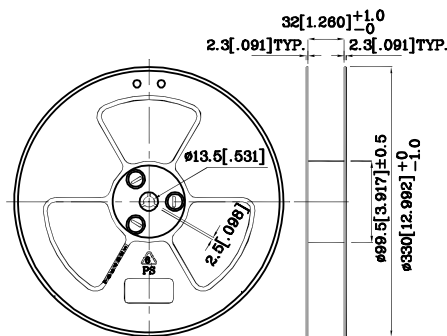
❖ **Recommended Soldering Pattern (Units : mm; Tolerance: ±0.15)**



❖ **Tape Specification (Units : mm)**



❖ **Reel Dimension**



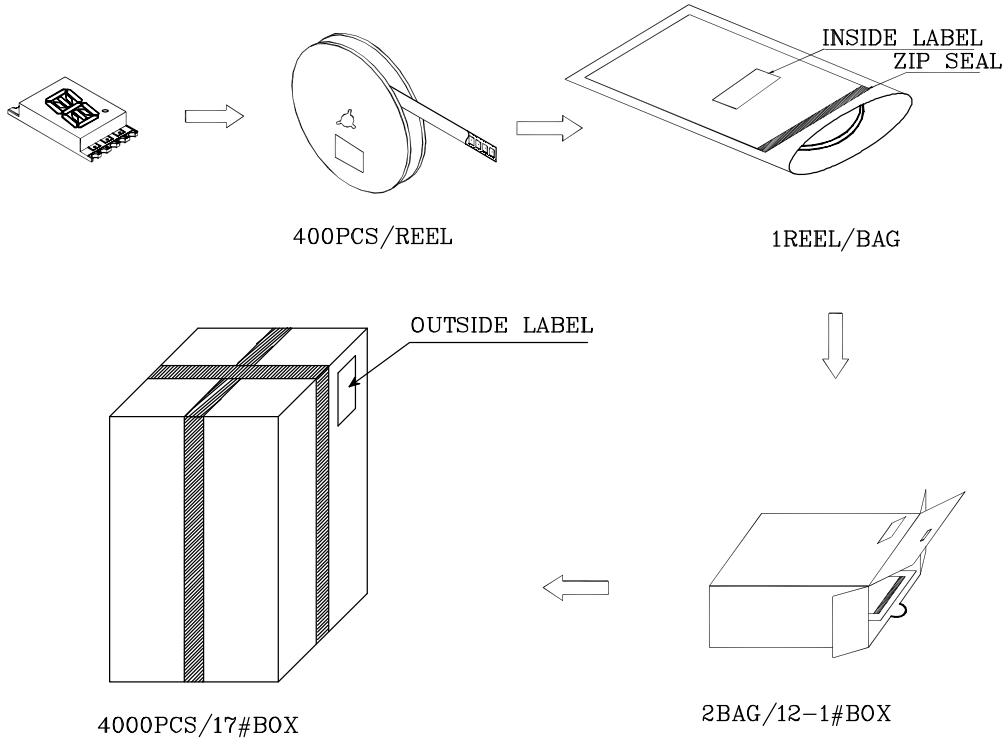
Remarks:

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:

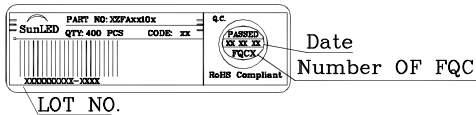
1. Wavelength: +/-1nm
2. Luminous intensity / luminous flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

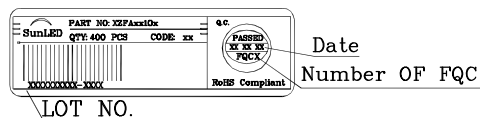
PACKING & LABEL SPECIFICATIONS



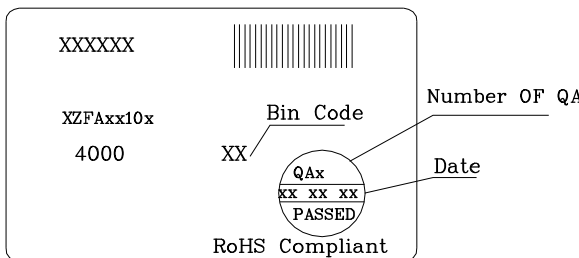
Inside Label On tape



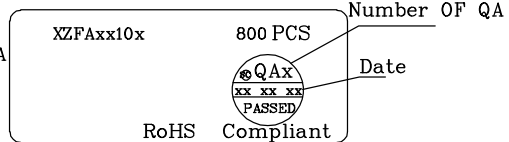
Outside Label On BAG



Outside Label On 19#Box



Outside Label On 12#Box



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