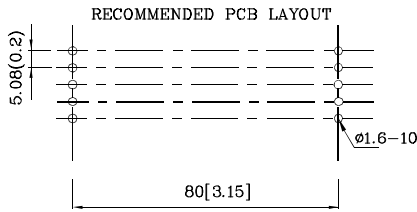
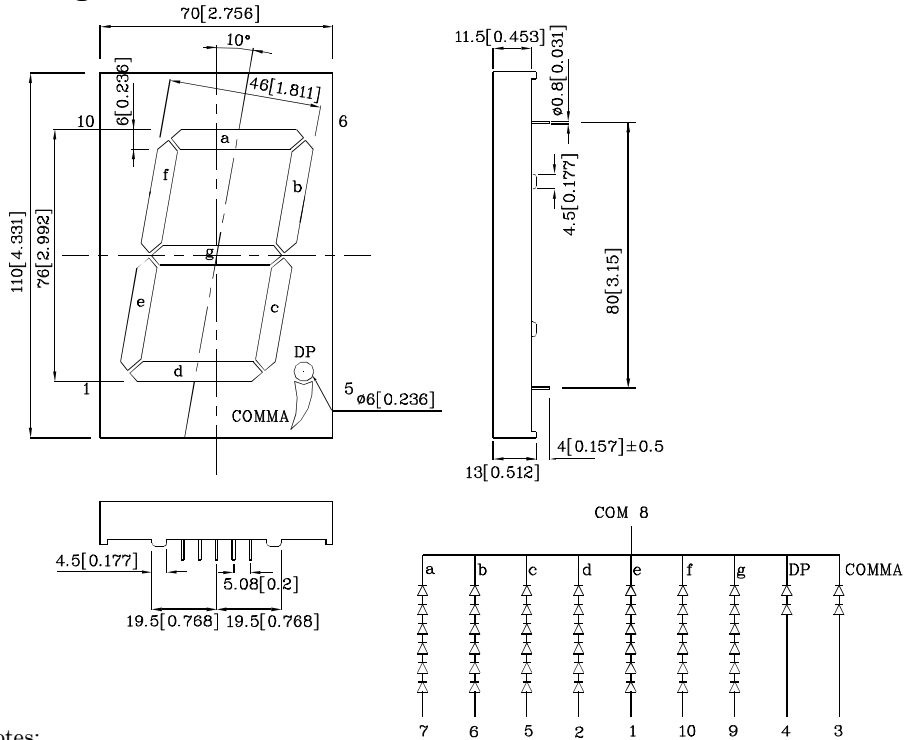


Features

- Low power consumption
- Robust package
- I.C. Compatible
- Standard configuration: Gray face w/ white segments
- Optional black face provides superior color contrast
- RoHS Compliant



Package Schematics



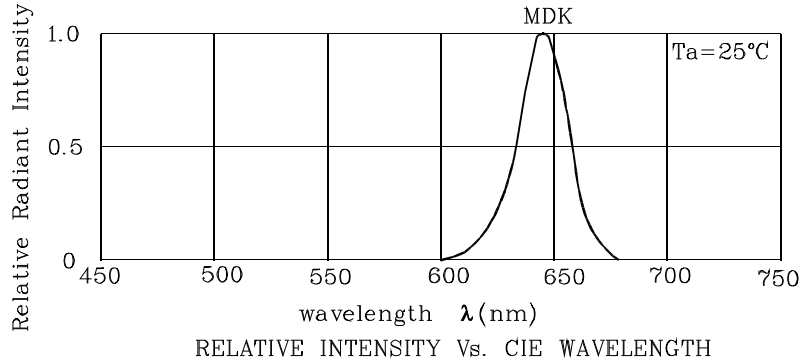
- Notes:
1. All dimensions are in millimeters (inches), Tolerance is $\pm 0.25(0.01)$ unless otherwise noted.
 2. Specifications are subject to change without notice.

Absolute Maximum Ratings ($T_A=25^\circ\text{C}$)	MDK (AlGaInP)	Unit
Reverse Voltage Per Segment or (Dp and Comma)	V_R 5 (5)	V
Forward Current Per Segment or (Dp and Comma)	I_F 30 (30)	mA
Forward Current (Peak) Per Segment or (Dp and Comma) 1/10 Duty Cycle 0.1ms Pulse Width	i_{FS} 185 (185)	mA
Power Dissipation Per Segment or (Dp and Comma)	P_D 450 (150)	mW
Operating Temperature	T_A -40 ~ +85	°C
Storage Temperature	T_{stg} -40 ~ +85	
Lead Solder Temperature [2mm Below Package Base]	260°C For 3-5 Seconds	

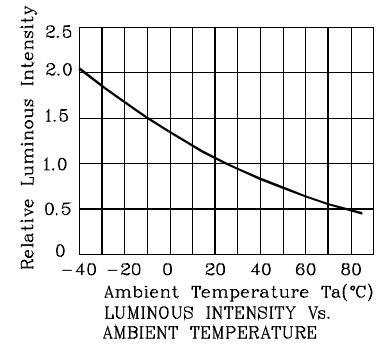
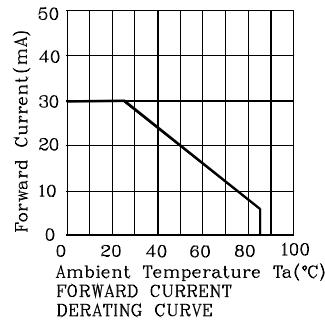
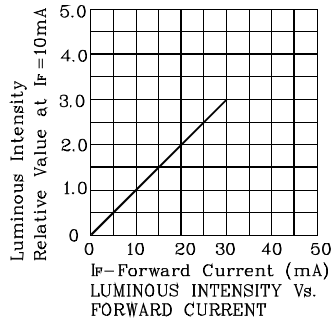
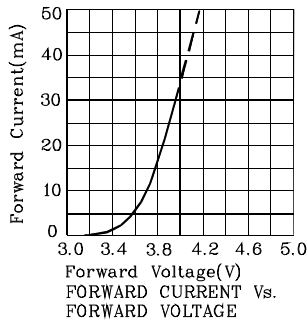
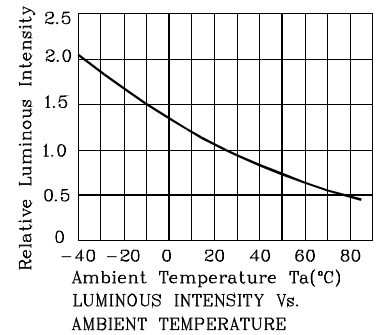
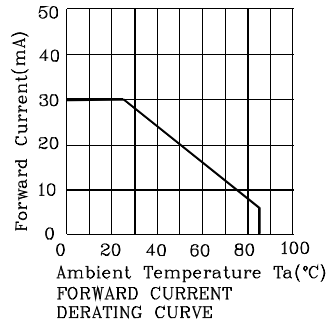
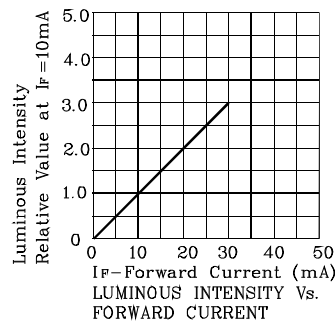
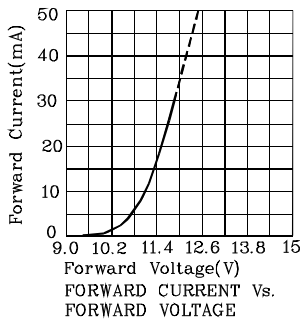
Operating Characteristics ($T_A=25^\circ\text{C}$)	MDK (AlGaInP)	Unit
Forward Voltage (Typ.) Per Segment or (Dp and Comma) ($I_F=10\text{mA}$)	V_F 11.1 (3.7)	V
Forward Voltage (Max.) Per Segment or (Dp and Comma) ($I_F=10\text{mA}$)	V_F 15 (5.0)	V
Reverse Current (Max.) Per Segment or (Dp and Comma) ($V_R=5\text{V}$)	I_R 10 (10)	μA
Wavelength of Peak Per Segment or (Dp and Comma) Emission CIE127-2007*(Typ.) ($I_F=10\text{mA}$)	λ_P 650 645*	nm
Wavelength of Dominant Emission CIE127-2007*(Typ.) ($I_F=10\text{mA}$)	λ_D 630 630*	nm
Spectral Line Full Width At Half-Maximum (Typ.) ($I_F=10\text{mA}$)	$\Delta\lambda$ 28	nm
Capacitance (Typ.) ($V_F=0\text{V}$, $f=1\text{MHz}$)	C 35	pF

Part Number	Emitting Color	Emitting Material	Luminous Intensity CIE127-2007* ($I_F=10\text{mA}$) ucd		Wavelength CIE127-2007* nm λ_P	Description
			min.	typ.		
XDMDK76C-A	Red	AlGaInP	150000 52000*	329990 110000*	650 645*	Common Cathode , Rt.Hand Decimal.

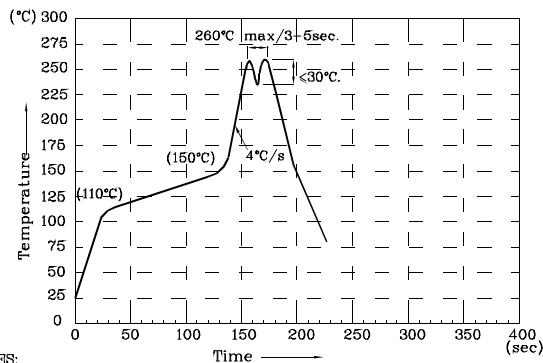
*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.



❖ MDK



Wave Soldering Profile for Thru-Hole Products (Pb-Free Components)



- NOTES:
- 1.Recommend the wave temperature 245°C~260°C.The maximum soldering temperature should be less than 260°C.
 - 2.Do not apply stress on epoxy resins when temperature is over 85°C.
 - 3.The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
 - 4.During wave soldering, the PCB top-surface temperature should be kept below 105°C.
 - 5.No more than once.

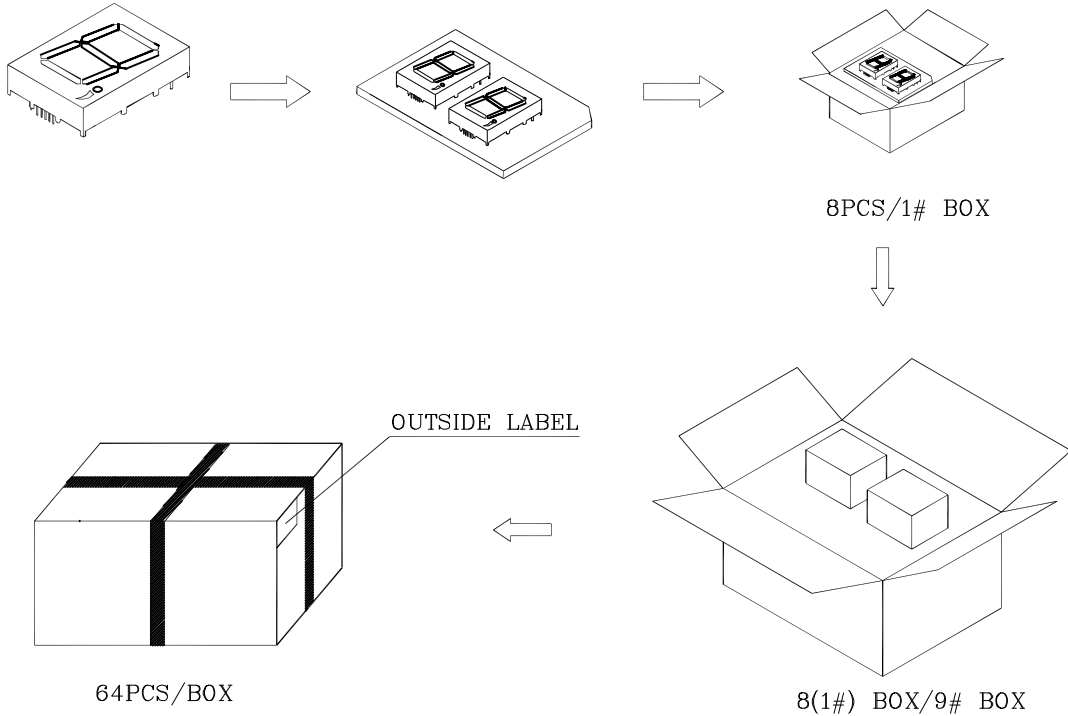
Remarks:

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:

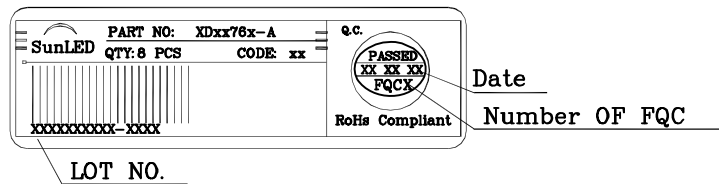
1. Wavelength: +/-1nm
2. Luminous Intensity / Luminous Flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS



Inside Label On 1#BOX



Outside Label On Box

