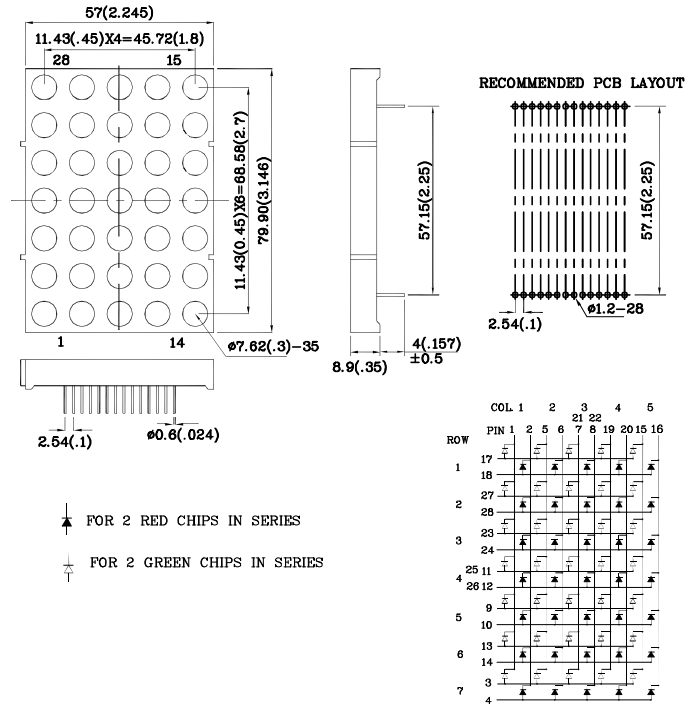


PRELIMINARY SPEC

Features

- 3.0 inch matrix height.
- Dot size 7.62mm.
- Low current operation.
- High contrast and light output.
- Compatible with ascii and ebcidic codes.
- Stackable horizontally.
- Column cathode and column anode available.
- Easy mounting on P.C. boards or sockets.
- Multicolor available.
- Mechanically rugged.
- Standard : gray face, white dot.
- RoHS compliant.



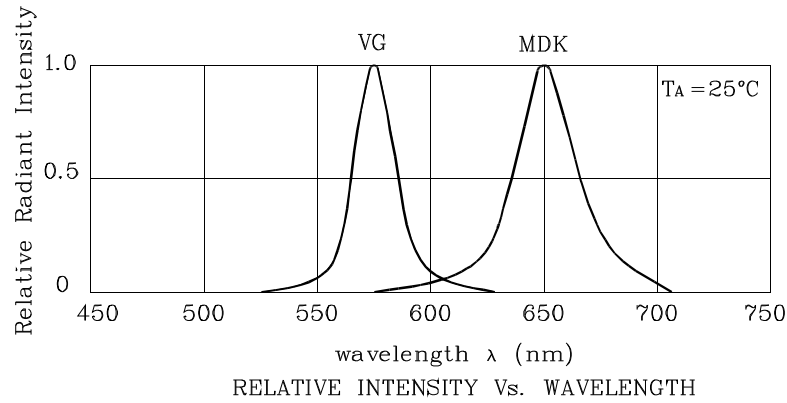
Notes:

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

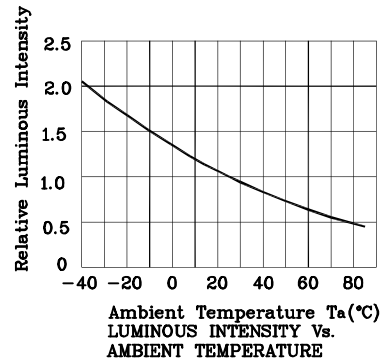
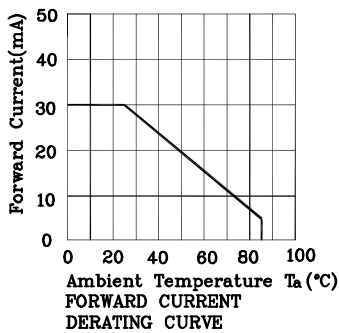
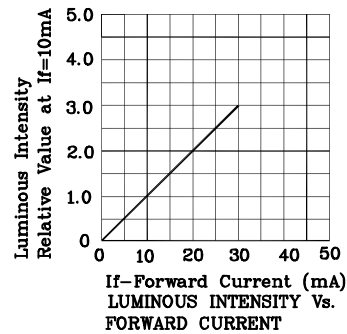
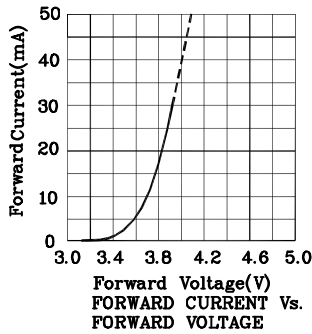
Absolute Maximum Ratings (TA=25°C)		MDK (AlGaInP)	VG (AlGaInP)	Unit
Reverse Voltage (Per Dot)	VR	10	10	V
Forward Current (Per Dot)	IF	30	30	mA
Forward Current (Peak) 1/10Duty Cycle 0.1ms Pulse Width	iFS	185	150	mA
Power Dissipation (Per Dot)	Pr	150	150	mW
Operating Temperature	TA	-40 ~ +85		°C
Storage Temperature	Tstg	-40 ~ +85		
Lead Solder Temperature [2mm Below Package Base]	260°C For 3~5 Seconds			

Operating Characteristics (TA=25°C)		MDK (AlGaInP)	VG (AlGaInP)	Unit
Forward Voltage (Typ.) (Per Dot) (IF=10mA)	VF	3.7	4.0	V
Forward Voltage (Max.) (Per Dot) (IF=10mA)	VF	5.0	5.0	V
Reverse Current (Max.) (Per Dot) (VR=10V)	IR	10	10	uA
Wavelength Of Peak Emission (Typ.) (IF=10mA)	λP	650	574	nm
Wavelength Of Dominant Emission (Typ.) (IF=10mA)	λD	630	570	nm
Spectral Line Full Width At Half-Maximum (Typ.) (IF=10mA)	$\Delta\lambda$	28	20	nm
Capacitance (Typ.) (VF=0V, f=1MHz)	C	35	15	pF

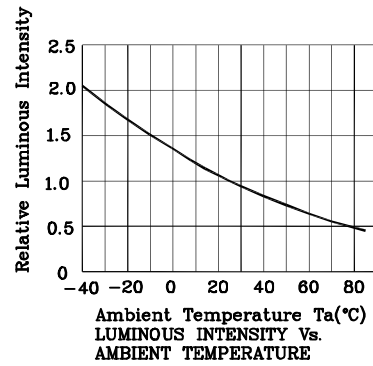
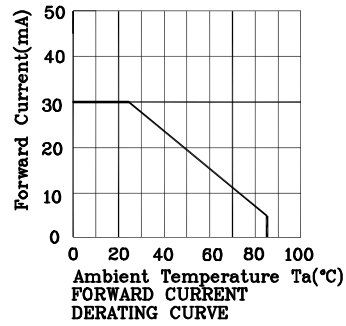
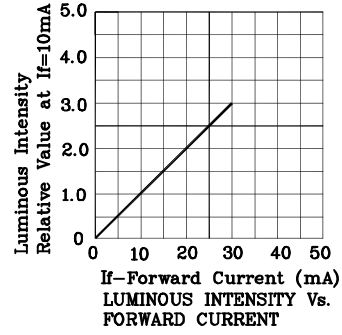
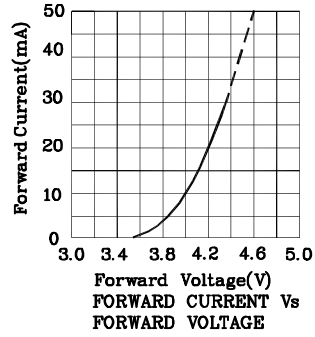
Part Number	Emitting Color	Emitting Material	Luminous Intensity (IF=10mA)		Wavelength nm λP	Description
			min.	typ.		
XMMDKVG80C	Red	AlGaInP	44000	148990	650	Column Cathode
	Green	AlGaInP	26000	85990	574	



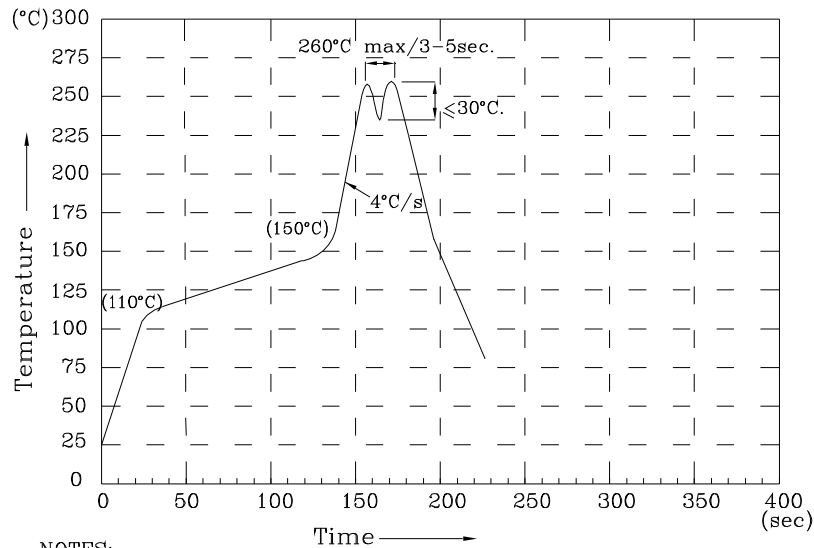
❖ MDK



❖ VG



Wave Soldering Profile For Lead-free Through-hole LED.



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 degree°C.
- 3.The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
- 4.No more than once.

Remarks:

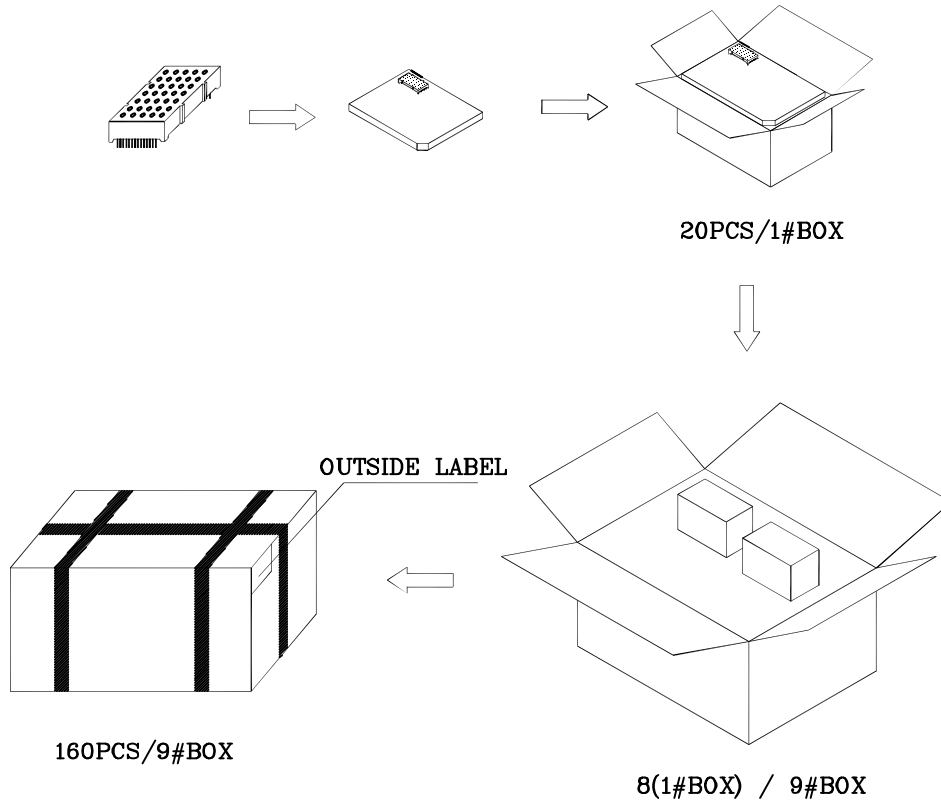
If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux or wavelength), the typical accuracy of the sorting process is as follows:

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

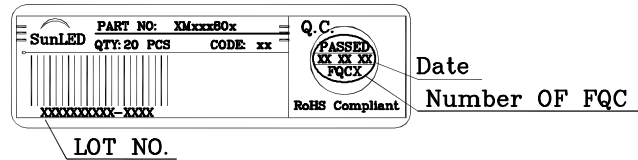
Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS

XMMDKVG80C



Inside Label Paste On The 1#BOX



Outside Label Paste On The Box

