

PRELIMINARY SPEC

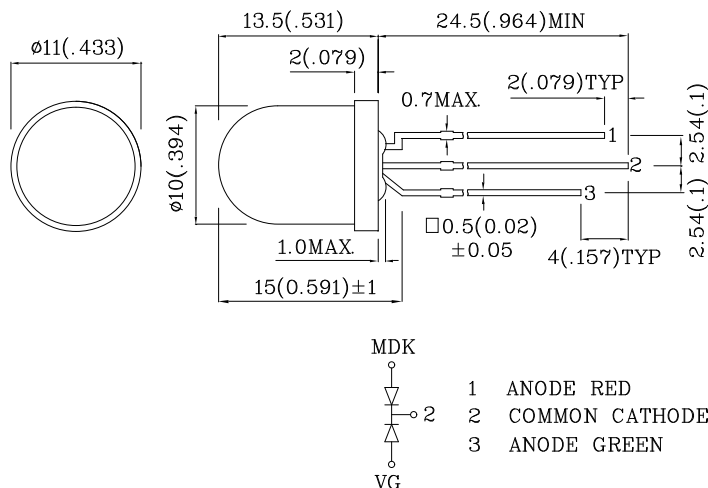
Features

- UNIFORM LIGHT OUTPUT.
- LOW POWER CONSUMPTION.
- 3 LEADS WITH ONE COMMON CATHODE LEAD.
- I.C. COMPATIBLE.
- LONG LIFE - SOLID STATE RELIABILITY.
- 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.



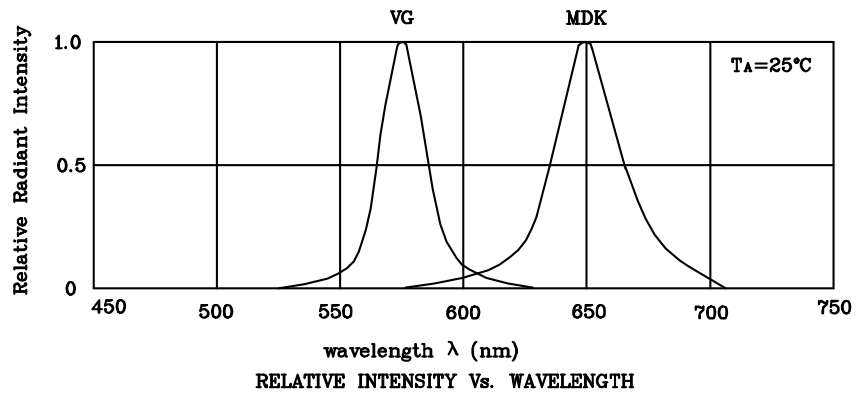
Absolute Maximum Ratings (TA=25°C)		MDK (InGaA IP)	VG (InGa AlP)	Unit
Reverse Voltage	VR	5	5	V
Forward Current	IF	30	30	mA
Forward Current (peak) 1/10Duty Cycle 0.1ms Pulse Width	iFS	185	150	mA
Power Dissipation	PT	75	75	mW
Operating Temperature	TA	-40 ~ +85		°C
Storage Temperature	Tstg	-40 ~ +85		
Lead Solder Temperature [2mm Below Package Base]	260°C For 3 Seconds			
Lead Solder Temperature [5mm Below Package Base]	260°C For 5 Seconds			

Operating Characteristics (T _A =25°C)		MDK (InGaAlP)	VG (InGaAlP)	Unit
Forward Voltage (Typ.) (I _F =20mA)	V _F	1.95	2.1	V
Forward Voltage (Max.) (I _F =20mA)	V _F	2.5	2.5	V
Reverse Current (Max.) (V _R =5V)	I _R	10	10	uA
Wavelength of Peak Emission (Typ.) (I _F =20mA)	λ P	650	574	nm
Wavelength of Dominant Emission (Typ.) (I _F =20mA)	λ D	635	570	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	Δλ	28	20	nm
Capacitance (V _F =0V, f=1MHz)	C	35	15	pF

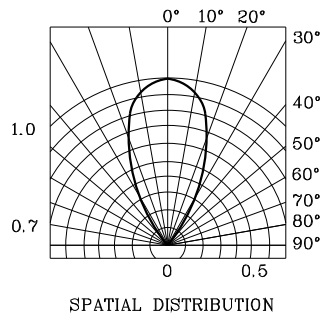
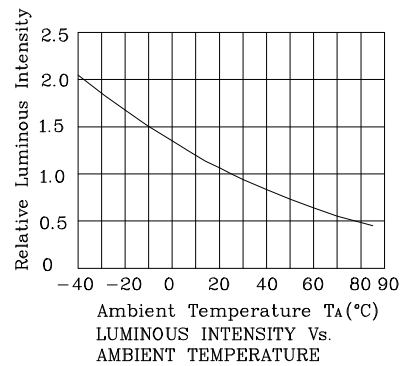
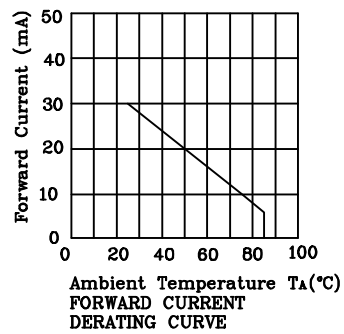
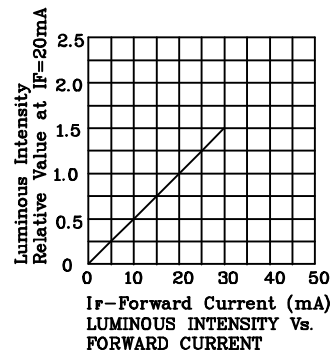
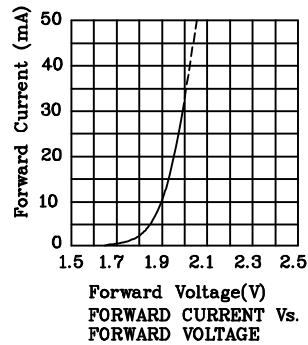
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=20mA) mcd	Wavelength nm λ P	Viewing Angle 2 θ 1/2	
				min.	typ.		
LMDKVG02M	Red	InGaAlP	White Diffused	380	745	650	50°
	Green	InGaAlP		36	89	574	
Published Date : MAR 20,2008		Drawing No :SDSA4833		V3	Checked : B.L.LIU	P.1/5	

Part Number: **LMDKVG02M**

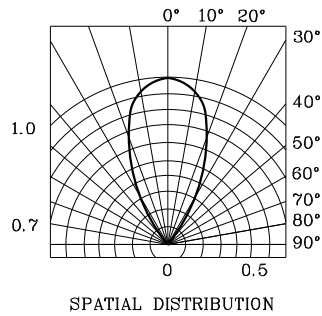
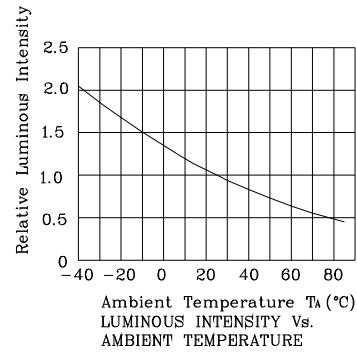
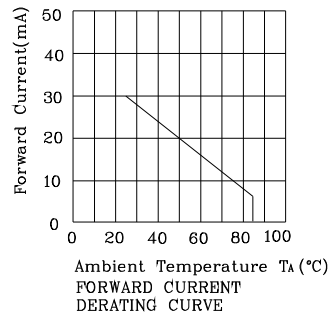
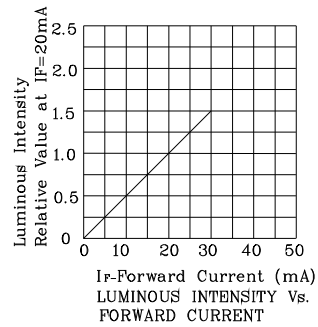
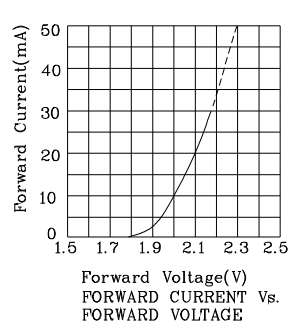
10mm ROUND LED LAMP



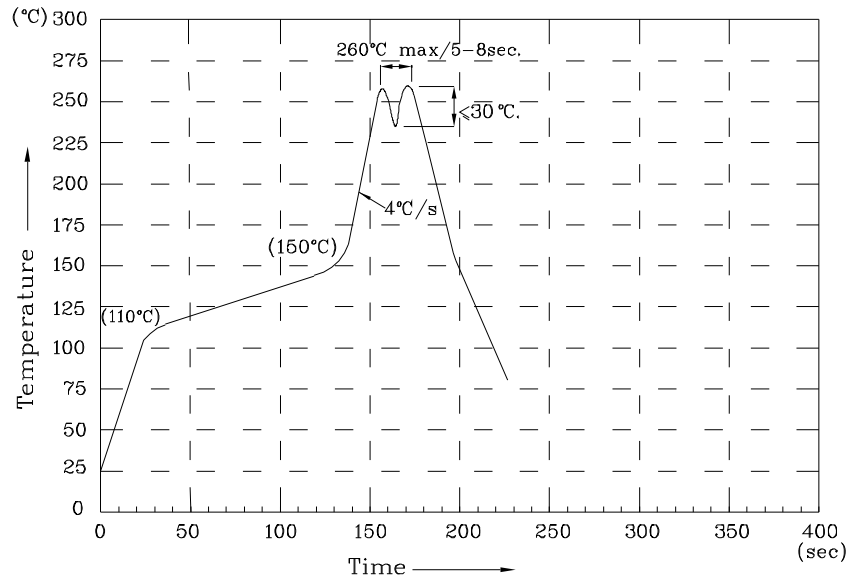
❖ MDK



❖ 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.

www.DataSheet4U.com

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.

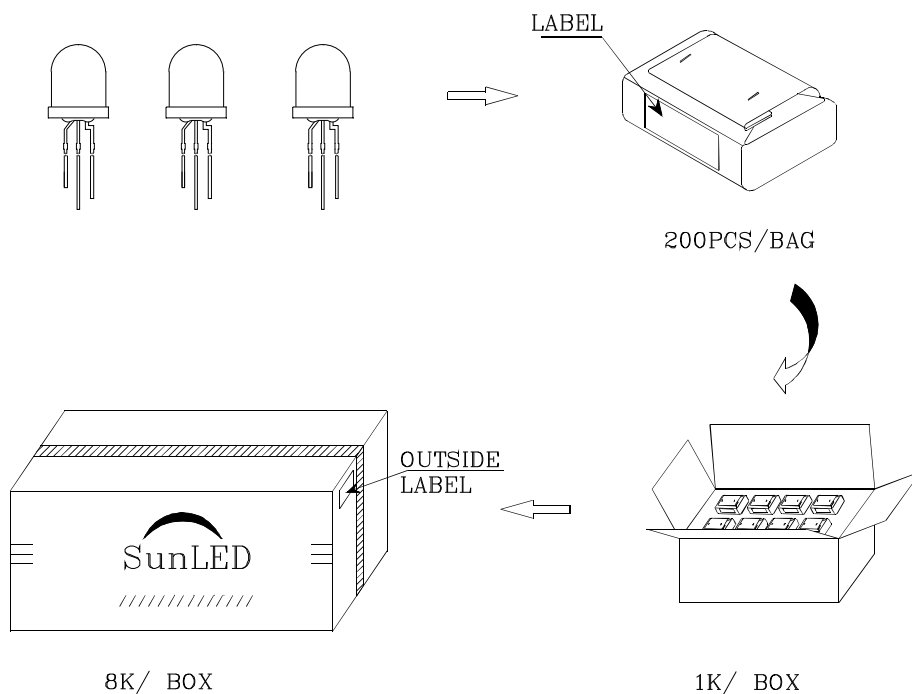
Part Number: **LMDKVG02M**

10mm ROUND LED LAMP



PACKING & LABEL SPECIFICATIONS

LMDKVG02M





Q.C.

Q C

XX XX XXXX

PASSED

P/NO : Lxxx02x	
QTY : 200 pcs	CODE: XXX
S/N : XX	
LOT NO:	
 xxxxxxxxxxxxxxxxxxxx RoHS Compliant	