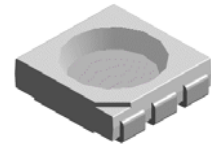


5.0 x 5.0mm Package SMD LED

VR K2A85

Description

The constructive of this series of LED are different from the PCB type SMD LED. The lead-frame is of metal, reflector is made of thermoplastic and construct into this unique type of SMD LED. Such construction is very suitable to be used in high demanding reliability applications such as in-car dashboard or telecommunications.







Features

- High reliability LED package
- Available in full selection of colors
- Package in 8mm carrier tape on 7 inch reel.
- Luminous and color categorized for each reel.
- Super wide viewing at 120°



Electronic Optical Characteristics (at 20mA per chip x 3):

Part Number	Emitted Color	λ (nm)		Lens Color	Iv(mcd)		View Angle (2 θ 1/2)	VF(V)	
		λ d	λ p		Min.	Max.		Typ.	Max.
VR K2A85	Blue 	470	468	Clear	1000	1500	120	3.2	3.4
VR K3A85	True-green 	525	518	Clear	6000	6500	120	3.2	3.4
VR K6A85	Yellow 	589	591	Clear	1500	2000	120	2.2	2.4
VR K7A85	Red 	625	615	Clear	2300	2800	120	2.2	2.4

Absolute Maximum Ratings (at Ta=25°C)

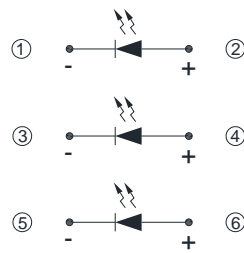
P _D (mW)	IFP(mA)	IF(mA)	Soldering Temp(°C)	IR(μA)@V _R =5V	Topr(°C)	Tstg(°C)
200	100*	60	260± 5 for 5 sec.	50	-40~+85	-40~+100

Note: Please take note the Absolute Maximum Rating values. Any operation beyond the specified ratings in this table will result degradation of LED life- span and may cause LED to fail.

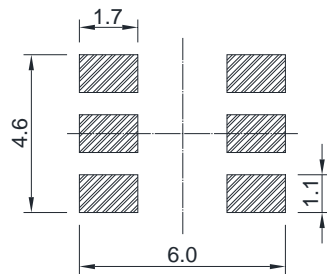
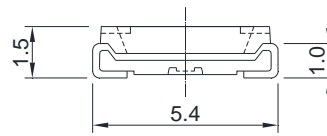
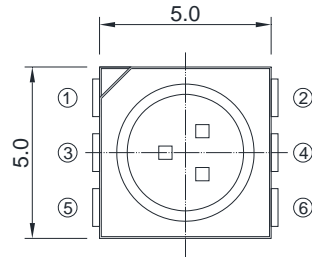
* IFP: Peak Forward Current under 1/10 duty, 1KHz condition

Package Dimension:

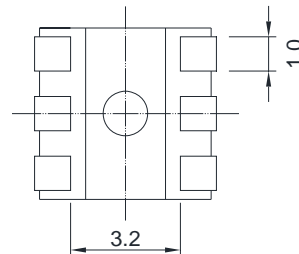
unit:mm



Polarity



Recommended Soldering Pad



Notes:

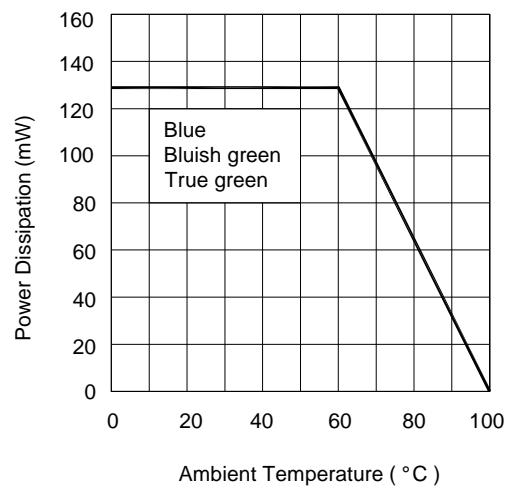
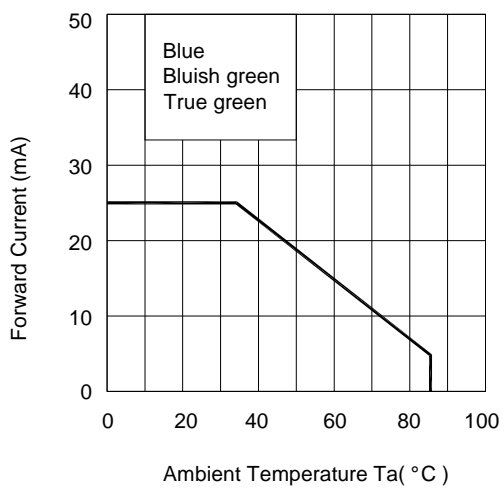
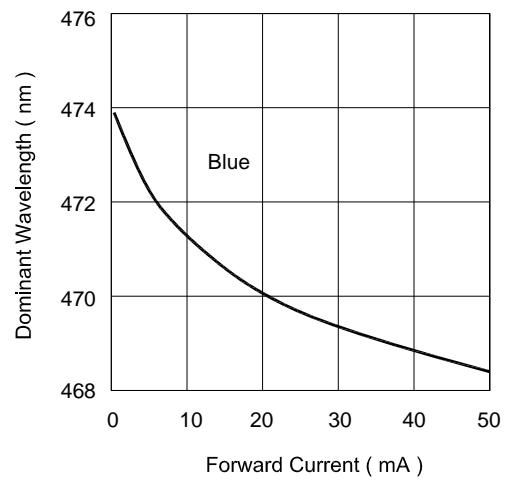
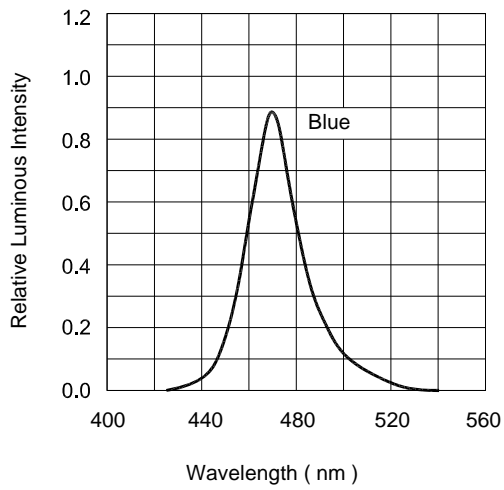
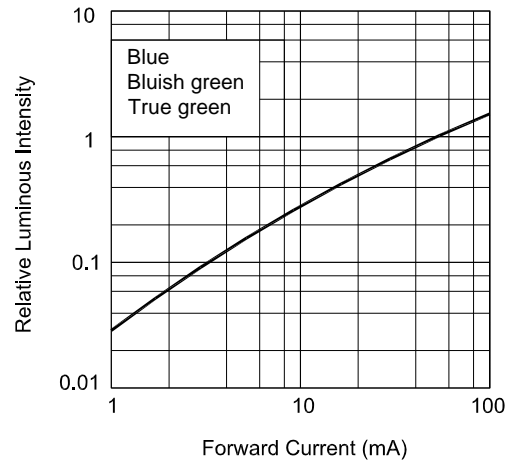
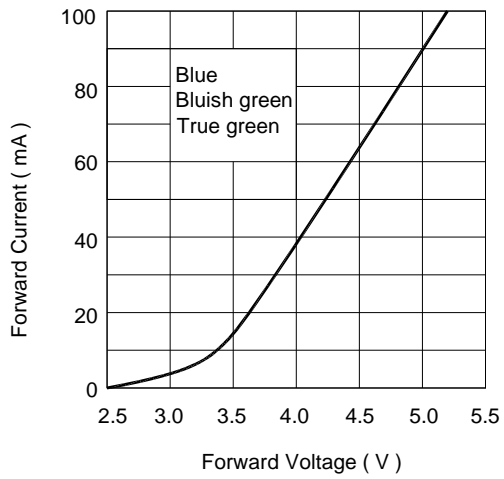
1. All dimensions are millimeters.
2. Tolerance is $\pm 0.2\text{mm}$ unless otherwise specified.
3. Specifications are subject to change without notice.

Version:2.0

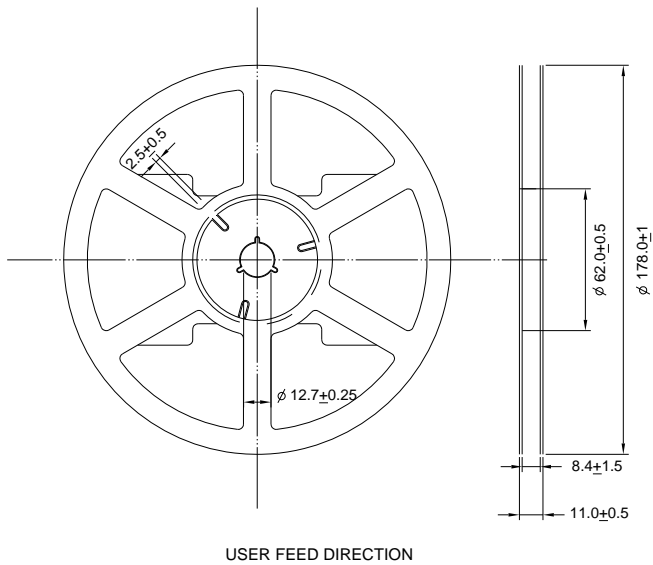
Spec: VR K2A85

Page 2 of 5

Optical Characteristics Curves

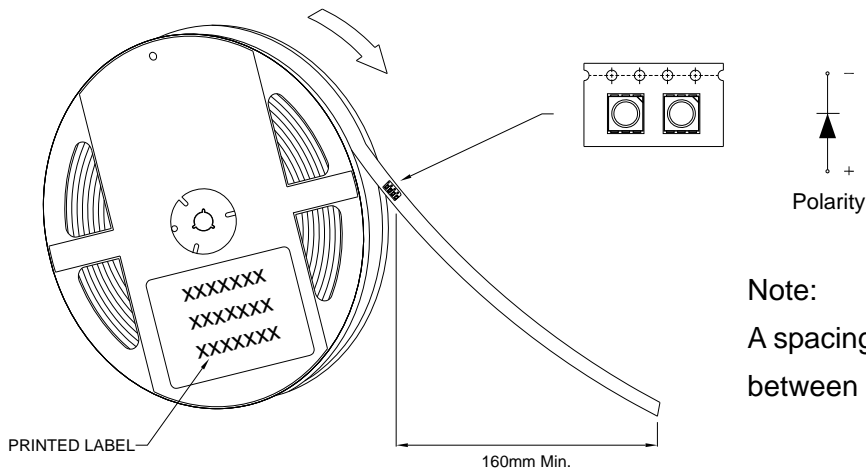


unit : mm



Note:

Available in 8mm carrier tape on 178mm diameter reels. (1,000 pieces)

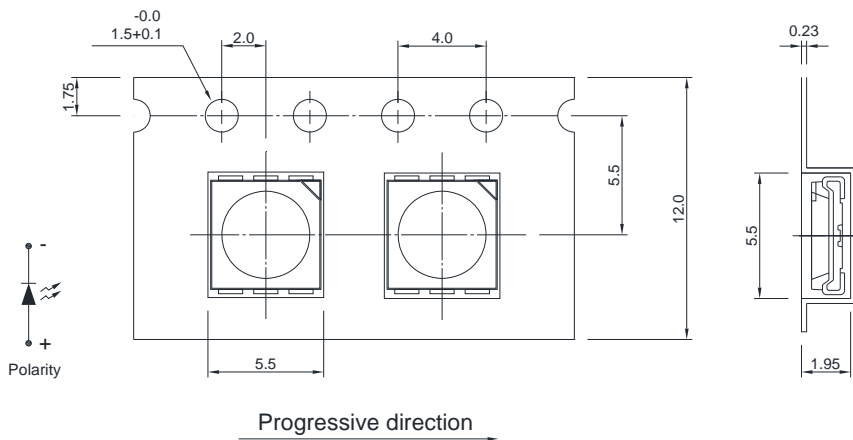


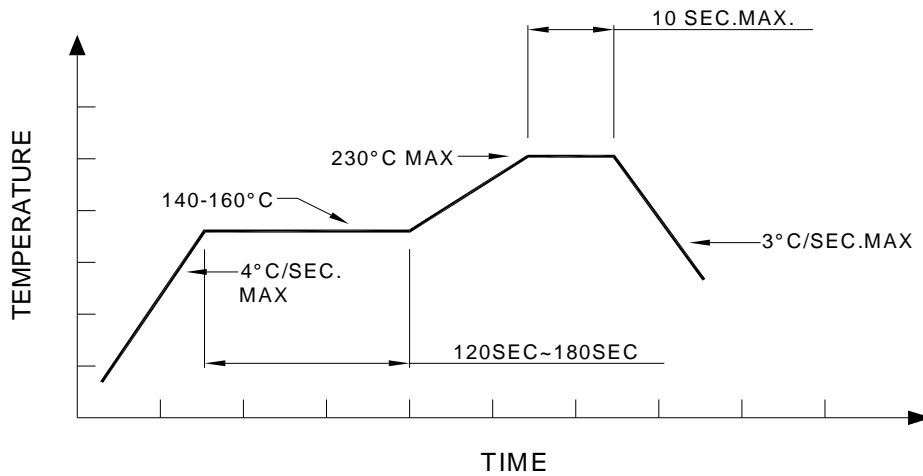
Note:

A spacing of approximately 160mm between the front edge of tape

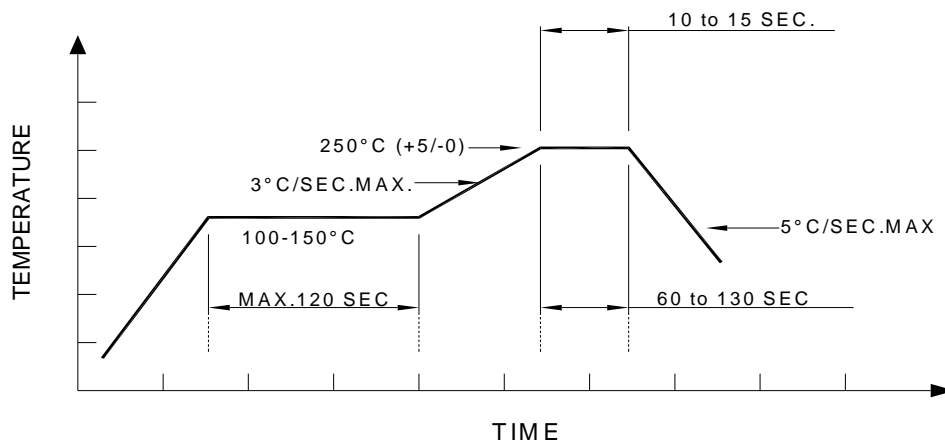
Tape Dimension:

unit : mm





Recommended Pb-free re-flow soldering profile:



Note:

All the specifications listed in this data sheet are suitable for general electronic equipment, office equipment and communication devices. Kindly consult Sales Representatives for specific reliabilities request, Forward Voltage, Luminous Intensity, Wavelength, Radiant Power or Viewing Angle.