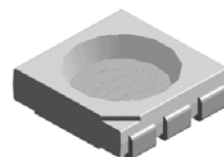


5.0 x 5.0mm Package SMD LED

VR KWA9.525

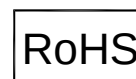
Description

The constructive of this series of LEDs 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
- 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	CCx	CCy	Lens Color	Iv(mcd)		View Angle (2θ1/2)	VF(per chip)	
					Min.	Max.		Min.	Max.
VR KWA9.525	White	0.29	0.30	Diffuse	4500	7100	120	3.0	4.0

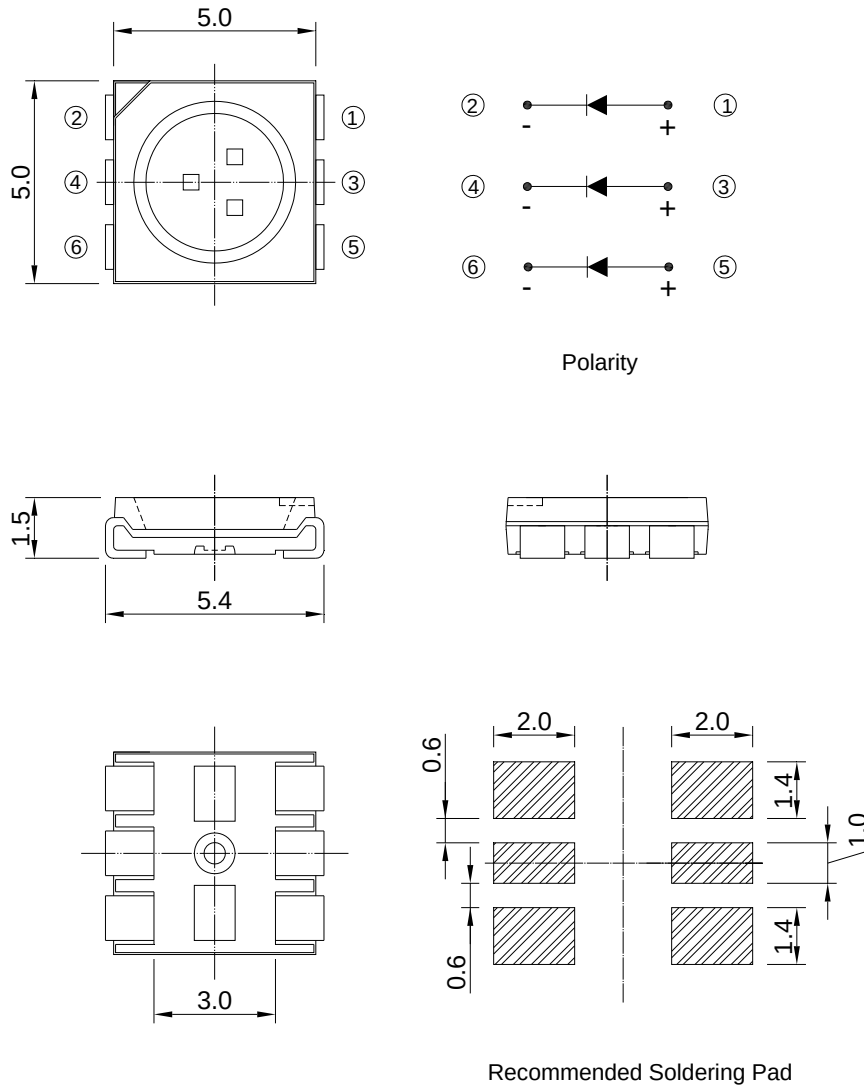
Absolute Maximum Ratings (at Ta=25°C per chip)

Emitted Color	P _D (mW)	I _F (mA)	ESD(V)	I _R (uA) @VR=5V	Topr (°C)	Tstg (°C)
White	120	30	1000	50	-40~+85	-40~+90

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.

Package Dimension:

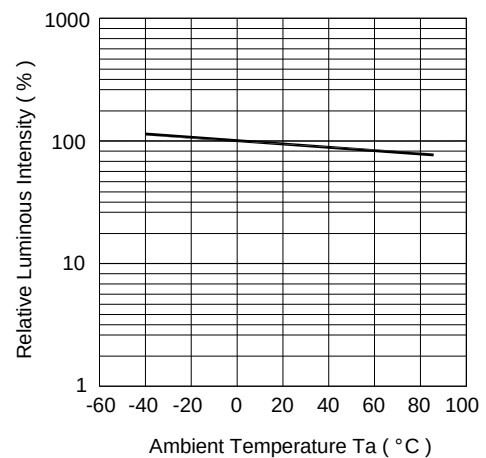
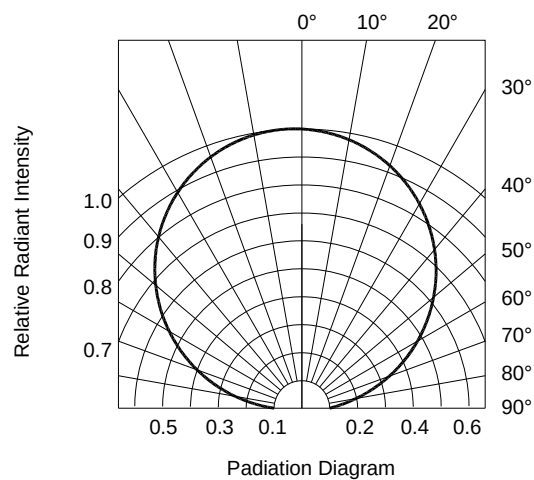
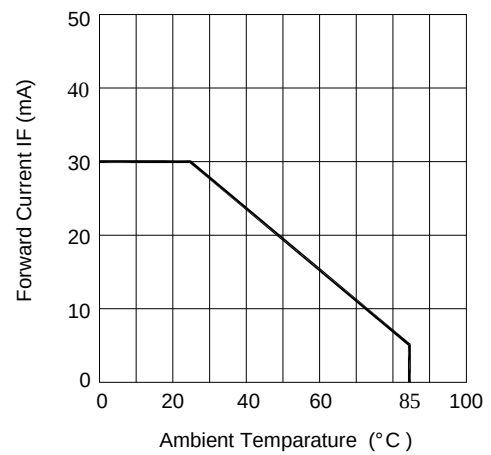
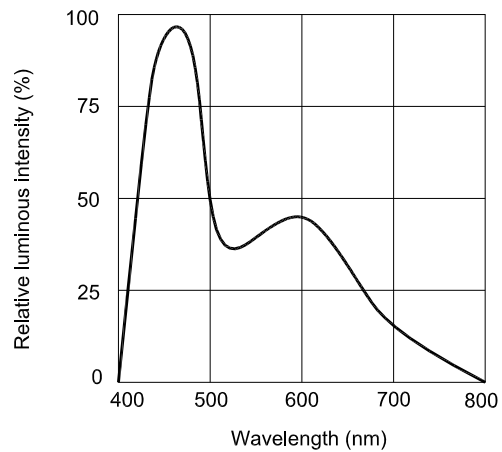
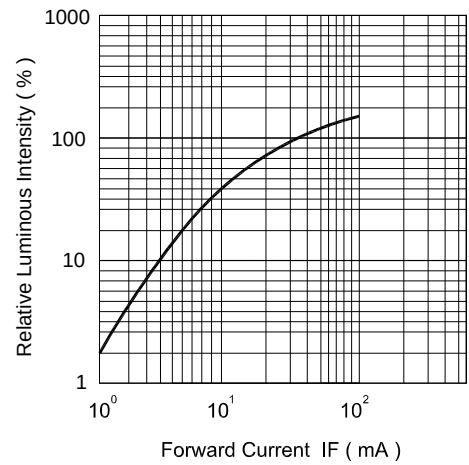
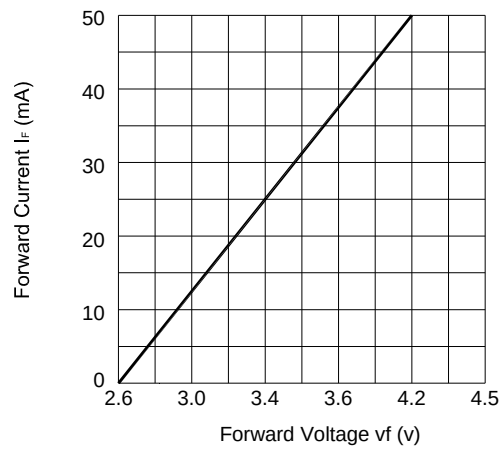
unit:mm



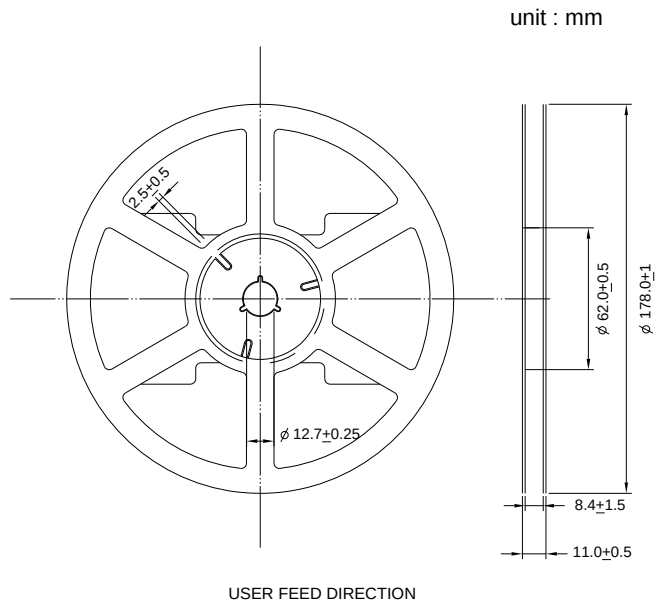
Notes:

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

Optical Characteristics Curves

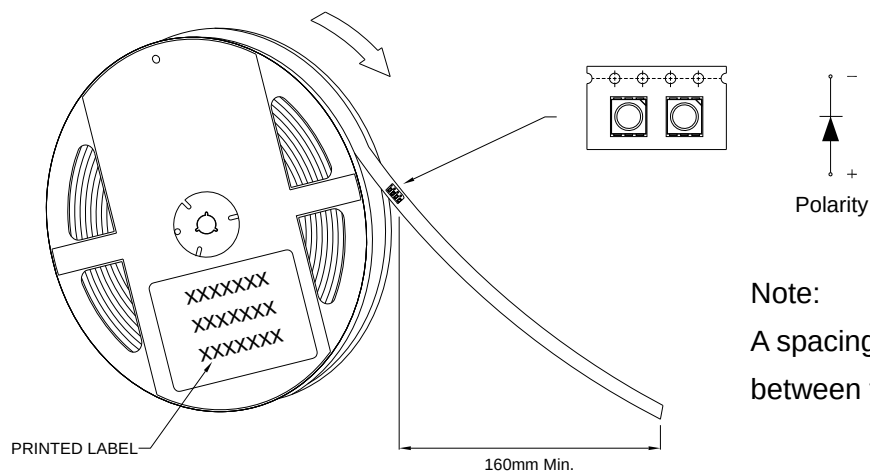


Reel Dimension:



Note:

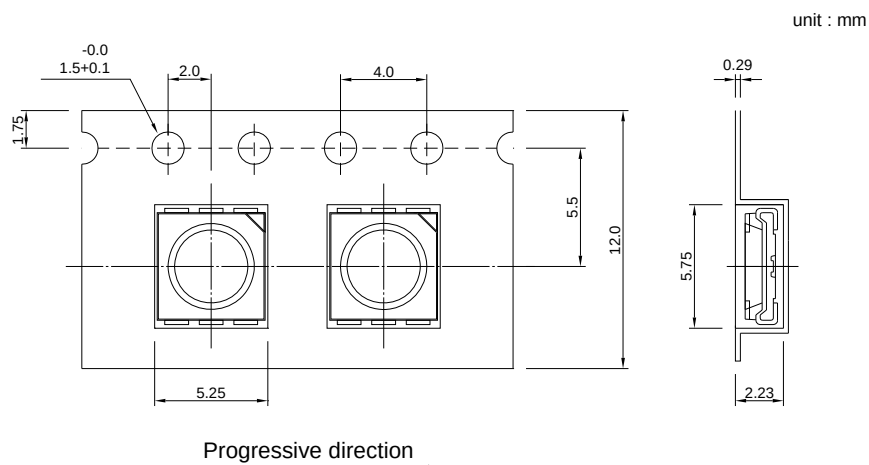
Available in 12mm carrier tape on 330mm diameter reels. (1000 pieces)



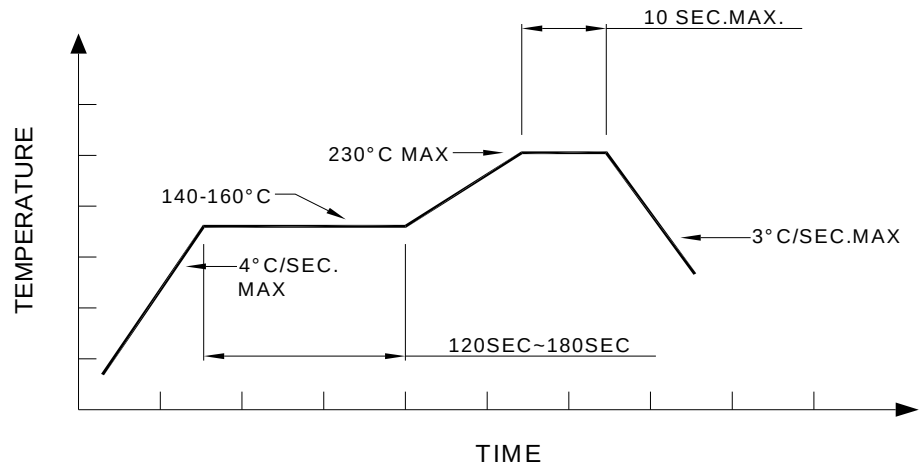
Note:

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

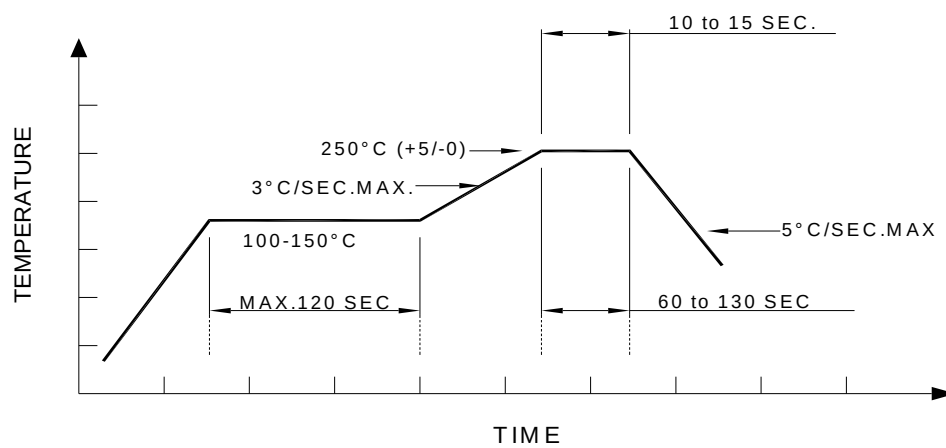
Tape Dimension:



Recommended re-flow soldering profile:



Recommended Pb-free re-flow soldering profile:



Luminous intensity ranks

Iv (mcd)	52	53
Min.	4500	5600
Max.	5600	7100