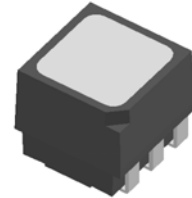


2727 Package RGB LED Black Face

VR PRC7

Description

The major breakthrough in VR PRC7 RGB colors emitted is package in dimension L x W x H, 2.8*2.7*2.45mm. The dice used in this series: Red: AlGaInP; Green: InGaN; Blue: InGaN. The advantages of InGaN are low power consumption and obtaining high luminous intensity under low current driving condition. The series is a perfect for signage display for outdoor.






Applications

- Outdoor signage display
- Decorating and entertainment design for outdoor
- Industrial control systems signal indicator
- Indicator and backlighting for consumer electronics



Electronic Optical Characteristics (R@20mA, G@15mA, B@10mA):

Part Number	Emitted Color	λd (nm)		Lens Color	Iv(mcd)		View Angle (2 θ 1/2)	VF(V)	
		Min.	Max.		Min.	Max.		Min.	Max.
VR PRC7	Red 	615	630	White	578	1269	110	1.8	2.6
	True-green 	517	535		1004	2206		2.5	3.5
	Blue 	465	480		170	485		2.5	3.5

Absolute Maximum Ratings (at Ta=25°C)

Emitted Color	P _D (mW)	I _F (mA)	I _{FP} (mA)	I _R (μA) @V _R =5V	Topr(°C)	Tstg(°C)
Red	50	20	40	10	-40~+85	-40~+90
True-green	70	20	40	10	-40~+85	-40~+90
Blue	70	20	40	10	-40~+85	-40~+90

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

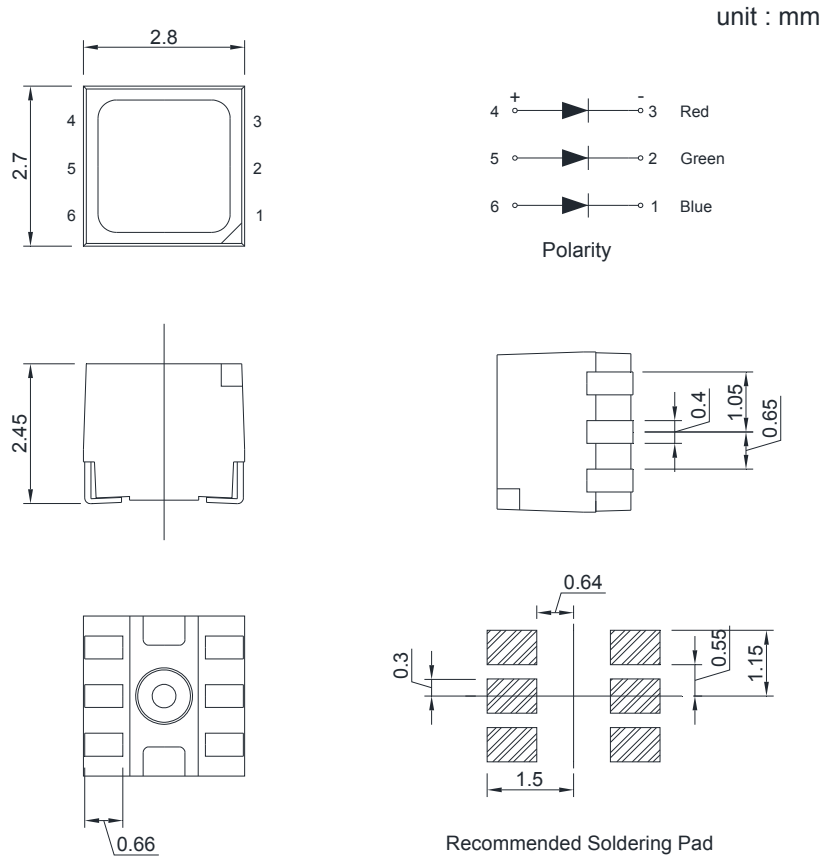
* I_{FP}: Peak Forward Current under 1/10 duty, 1KHz condition

Version:1.1

Spec: VR PRC7

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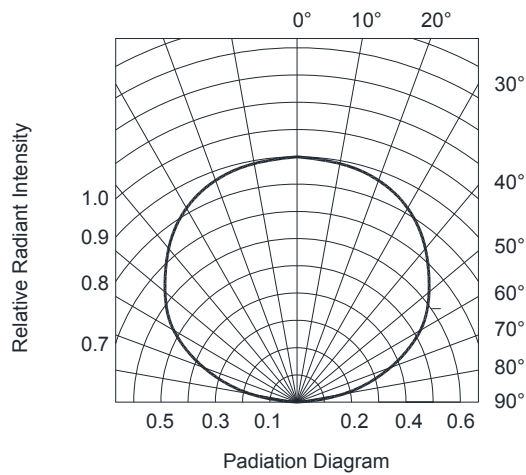
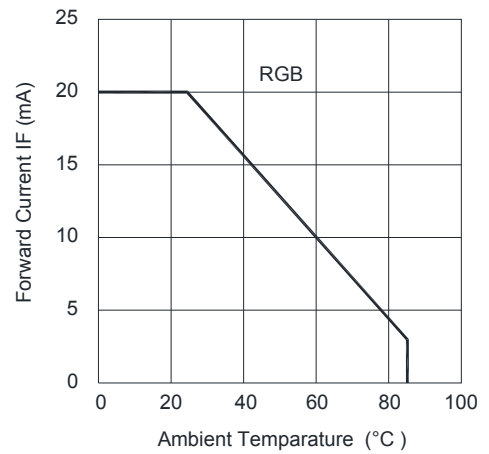
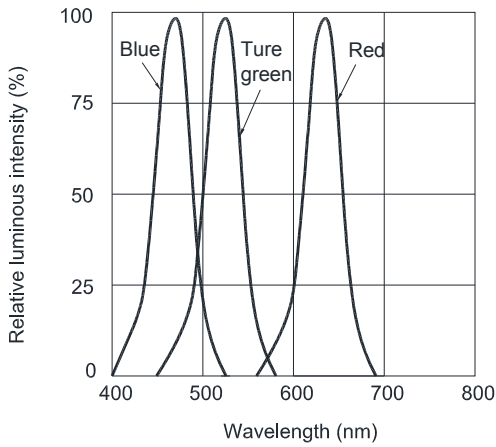
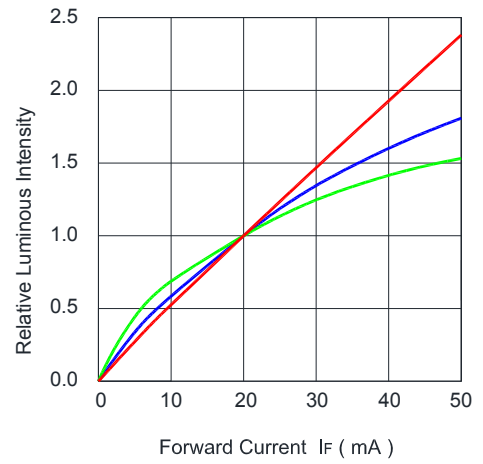
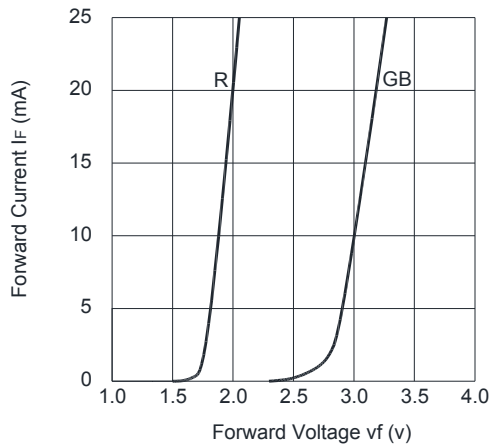
Package Dimension:



Notes:

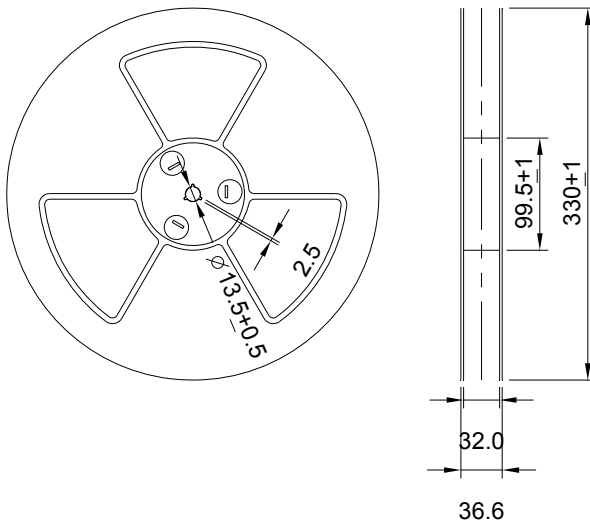
1. All dimensions are millimeters.
2. Tolerance is ± 0.2 mm unless otherwise specified.
3. Specifications are subject to change without notice.

Optical Characteristics Curves



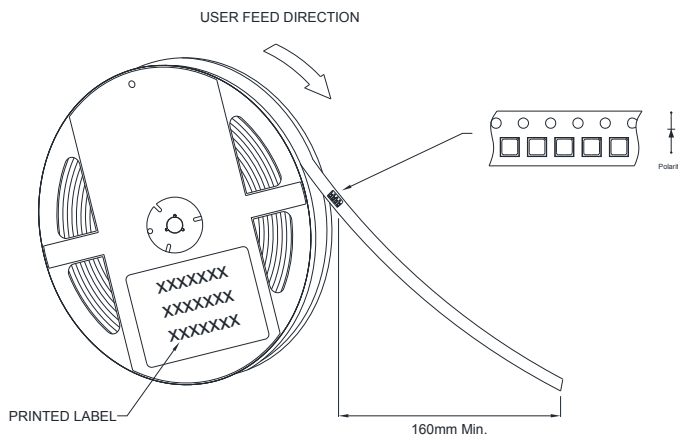
Reel Dimension:

unit : mm



Note:

Available in 8mm carrier tape on 330mm diameter reels. (8,000 pieces)

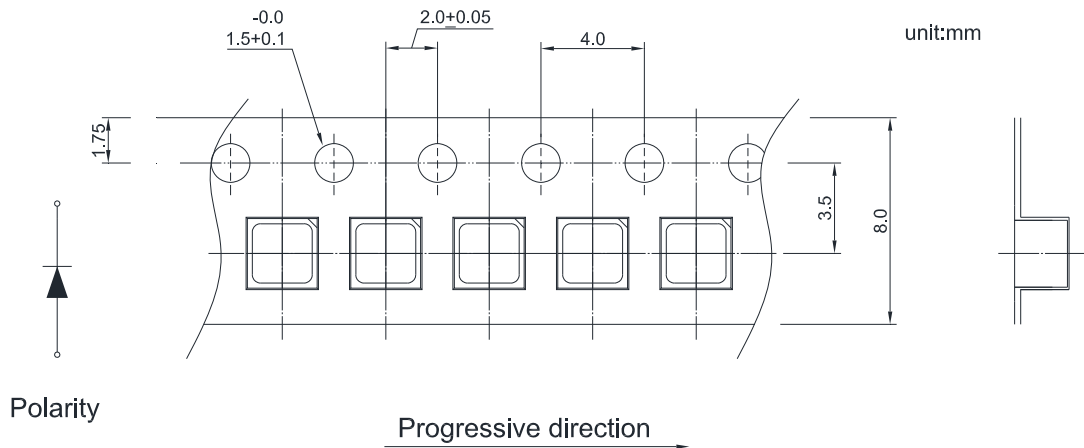


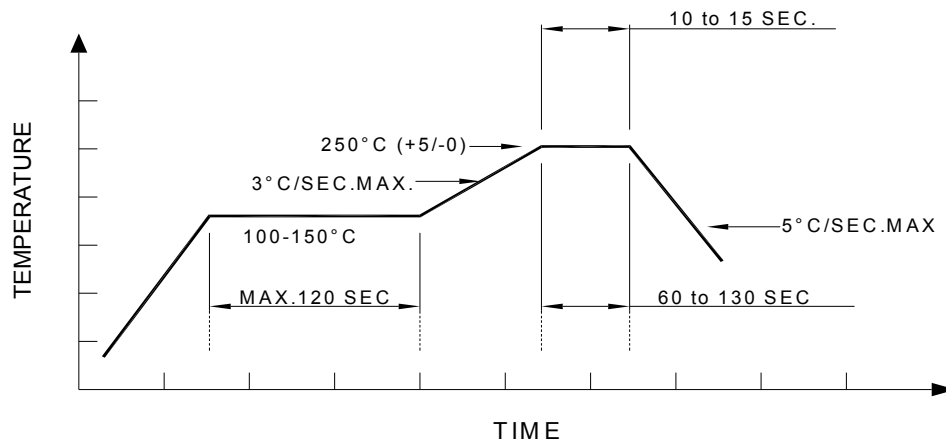
Note:

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.