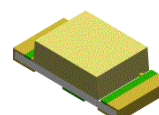


0603 Package SMD LED 0.4mm Height

VS 2WC9M

Description

The major breakthrough in VS 2WC9M is White color emitted package in 0603 dimension SMD LED. This series of top emitting devices are suitable for backlighting applications or applications call for light emitting from unique angle.

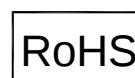


Feature

- Package: Top emitting SMT-package, brightness, VF and color categorized for each reel
- Technology: InGaN with phosphor
- Assembly: Suitable for all SMT assembly methods

Application

- General lighting indicator
- Backlighting (LCD, switches , keys, display)
- Interior automotive



Electronic Optical Characteristics (at 5mA):

Part Number	Emitted Color	C.C		Lens Color	Iv(mcd)		View Angle	VF(V)	
		X	Y		Min.	Typ.		Min.	Max.
VR 2WC9M	White	0.25	0.23	Yellow	45	112	130	2.7	3.2

Absolute Maximum Ratings (at Ta=25°C)

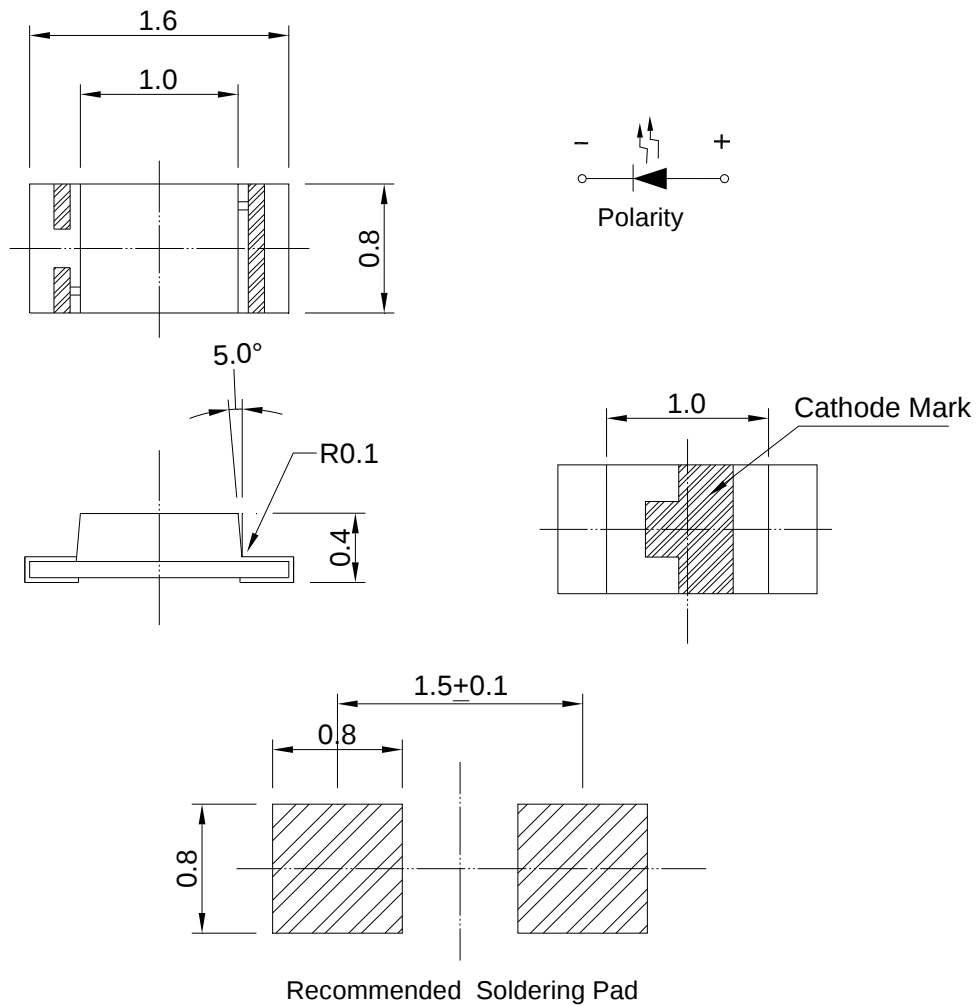
P _D (mW)	I _{FP} (mA)	I _F (mA)	Iron Solder (°C)	I _R (uA)@V _R =5V	Topr(°C)	Tstg(°C)
110	100*	25	350 ± 5 for 3 sec.	50	-40~+85	-40~+100

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

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.

Color Ranks ($I_F=5\text{mA}$, $T_a=25^\circ\text{C}$)

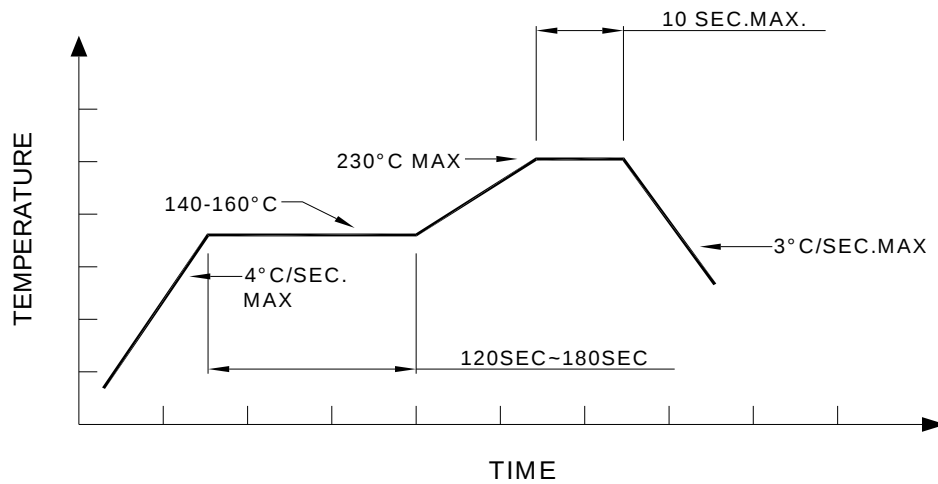
Rank	CIE x	CIE y
X4	0.234	0.202
	0.234	0.235
	0.254	0.263
	0.254	0.230
X3	0.234	0.170
	0.234	0.202
	0.254	0.230
	0.254	0.198
X2	0.254	0.230
	0.254	0.263
	0.274	0.291
	0.274	0.258
X1	0.254	0.198
	0.254	0.230
	0.274	0.258
	0.274	0.226

Measurement uncertainty of the color coordinates: ± 0.01

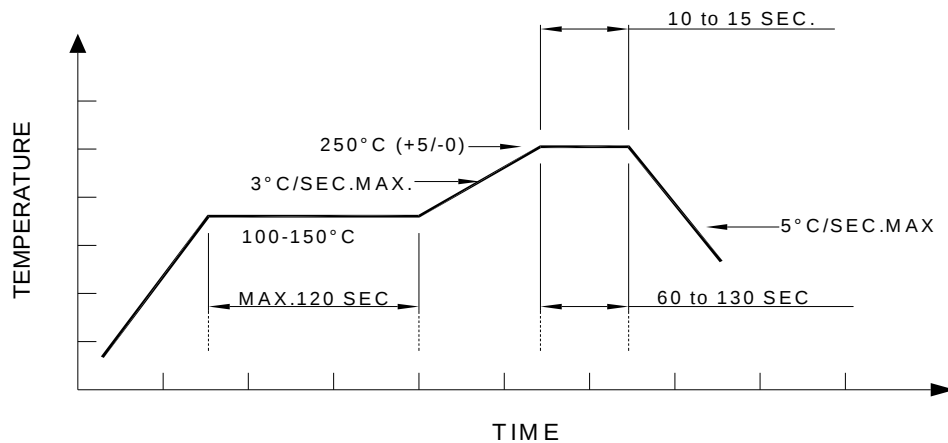
Specification for bin grade @ 5 mA

Iv(mcd)			VF(Volt)		
Code	Min.	Max.	Code	Min.	Max.
P1	45	57	29	2.7	2.8
P2	57	72	30	2.8	2.9
Q1	72	90	31	2.9	3.0
Q2	90	112	32	3.0	3.1
--	--	--	33	3.1	3.2

Recommended re-flow soldering profile:



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.