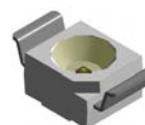


3528 Reverse Package SMD LED

VR BWC8

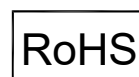
Description

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 SMT LED. The wavelengths and luminous intensities of this series are grouped under 20mA for uniformity. The dice used in this series is InGaN technology are low power consumption and obtaining high luminous intensity.



Applications

- Dashboards and switch
- Backlight keypads
- Industrial control systems signal indicator
- Automotive features
- Industrial panel



Electronic Optical Characteristics (at 20mA):

Part Number	Emitted Color	C.C		Lens Color	Iv(mcd)		View Angle	VF(V)	
		X	Y		Min.	Typ.		Min.	Max.
VR BWC8	White	0.29	0.30	Yellow	900	1420	120	2.7	3.8

Absolute Maximum Ratings (at Ta=25°C)

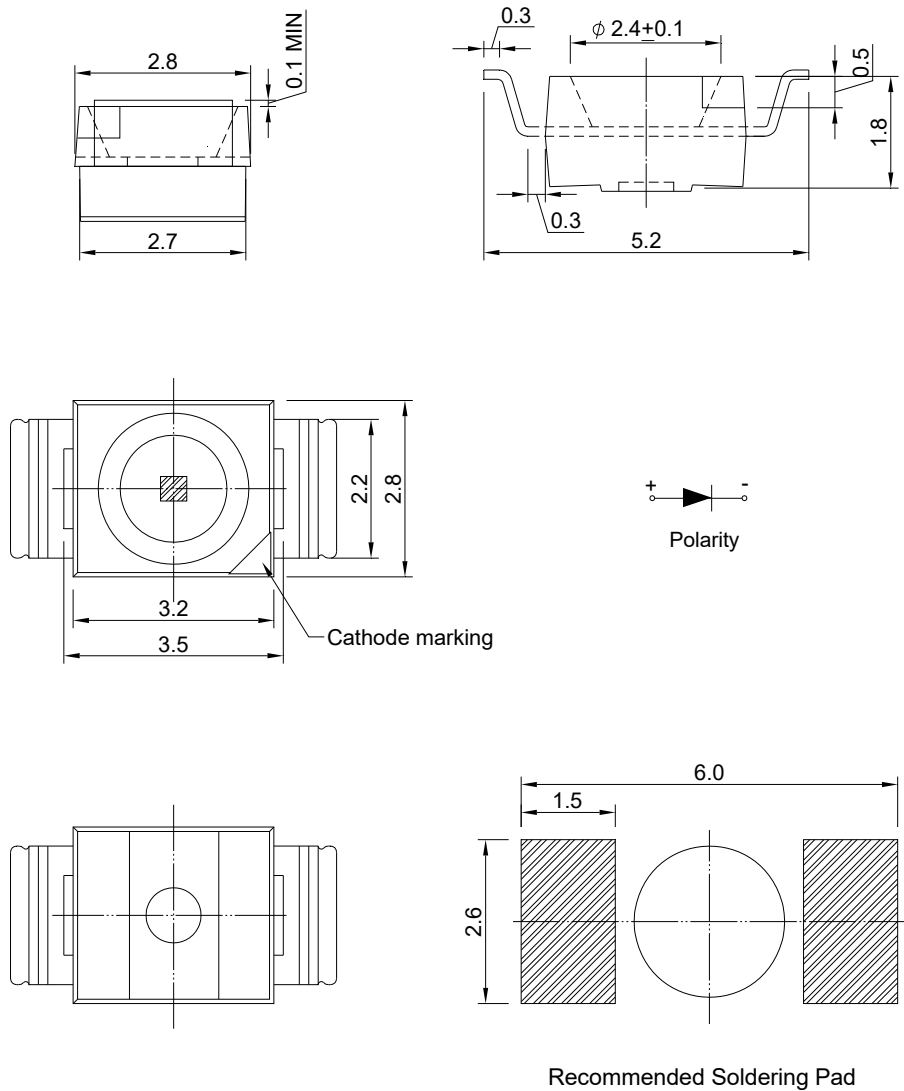
P _D (mW)	I _{FP} (mA)	I _F (mA)	Iron Solder (°C)	I _R (uA)@V _R =5V	Topr(°C)	Tstg(°C)
90	100*	25	350 ± 5 for 3 sec.	50	-40~+85	-40~+100

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:

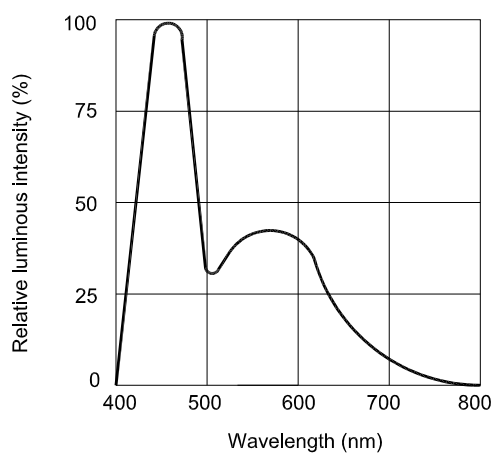
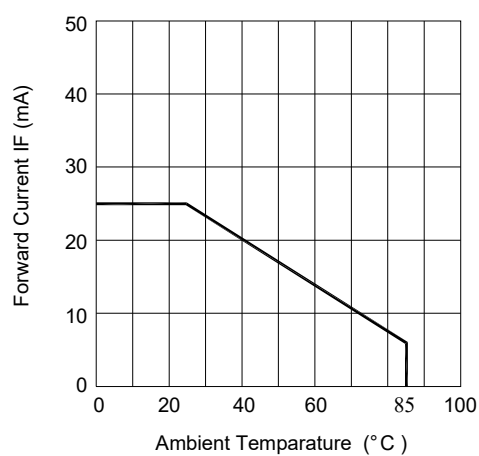
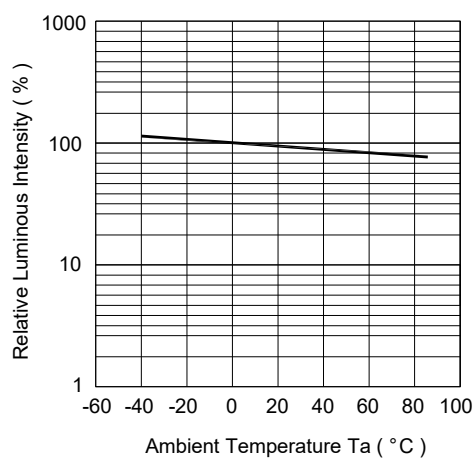
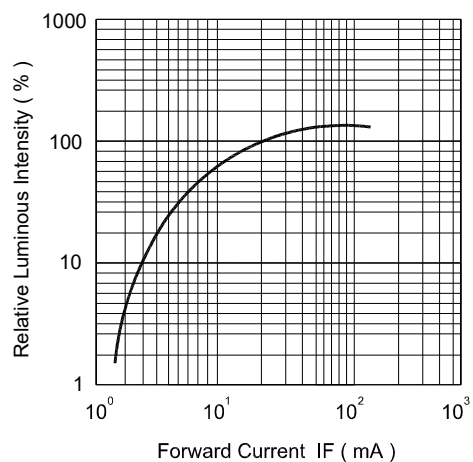
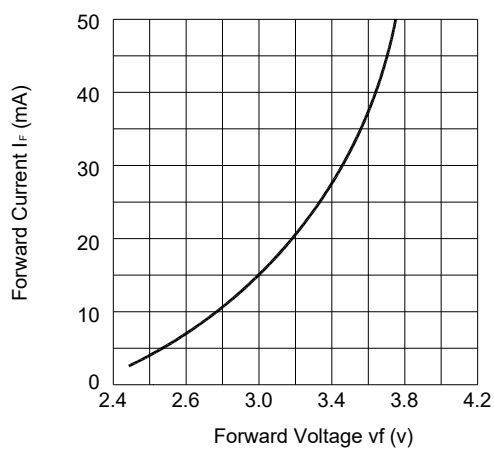
unit : mm

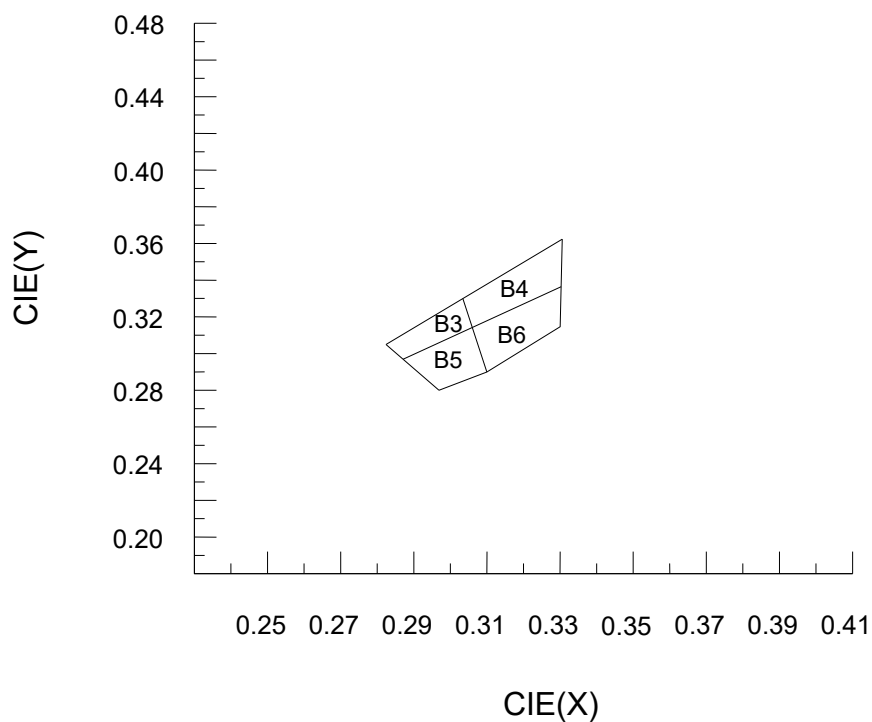


Notes:

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

Optical Characteristics Curves





Color Ranks ($I_f=20\text{mA}$, $T_a=25^\circ\text{C}$)

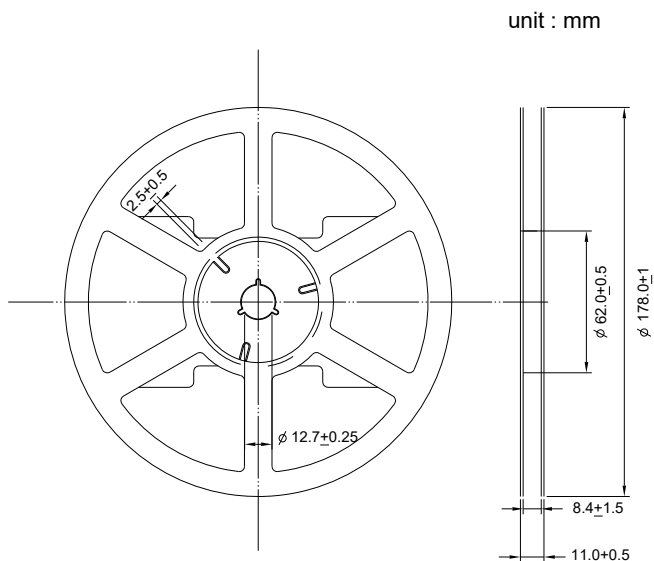
Rank	CIE x	CIE y	Rank	CIE x	CIE y
B3	0.296	0.276	B4	0.311	0.294
	0.287	0.295		0.307	0.315
	0.307	0.315		0.330	0.339
	0.311	0.294		0.330	0.318
B5	0.296	0.276	B6	0.311	0.294
	0.287	0.295		0.307	0.315
	0.307	0.315		0.330	0.339
	0.311	0.294		0.330	0.318

Measurement uncertainty of the color coordinates: ± 0.01

Specification for bin grade @ 20 mA

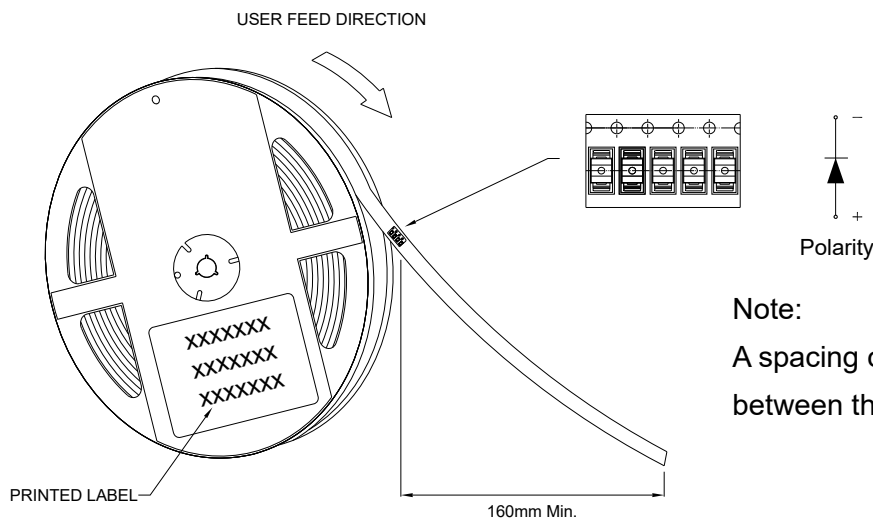
LI(mcd)			VF(Volt)		
Code	Min.	Max.	Code	Min.	Max.
V2	900	1120	37	3.0	3.1
W1	1120	1420	38	3.1	3.2
W2	1420	1800	39	3.2	3.3
X1	1800	2240	40	3.3	3.4
--	--	--	41	3.4	3.5

Reel Dimension:



Note:

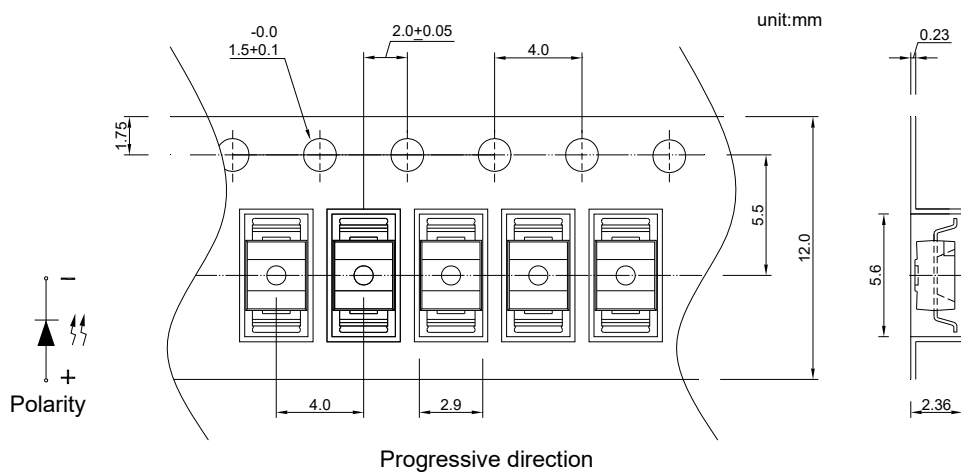
Available in 8mm carrier tape on 178mm diameter reels. (2000 pieces)



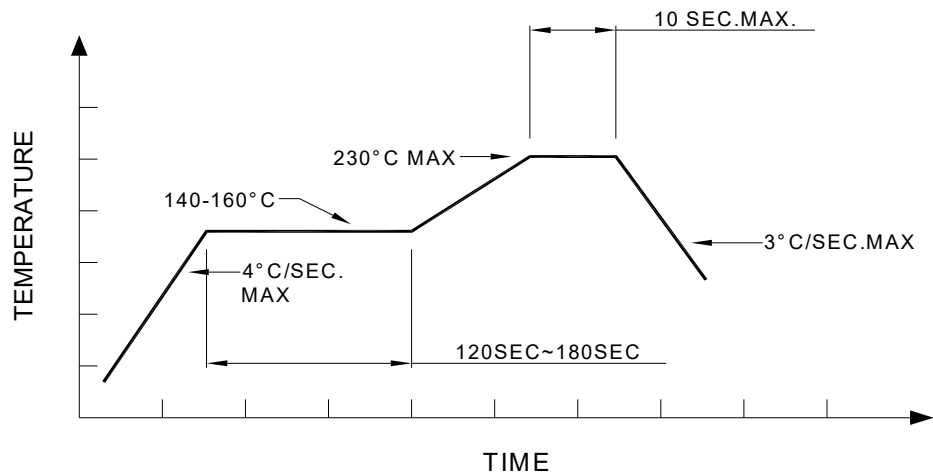
Note:

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

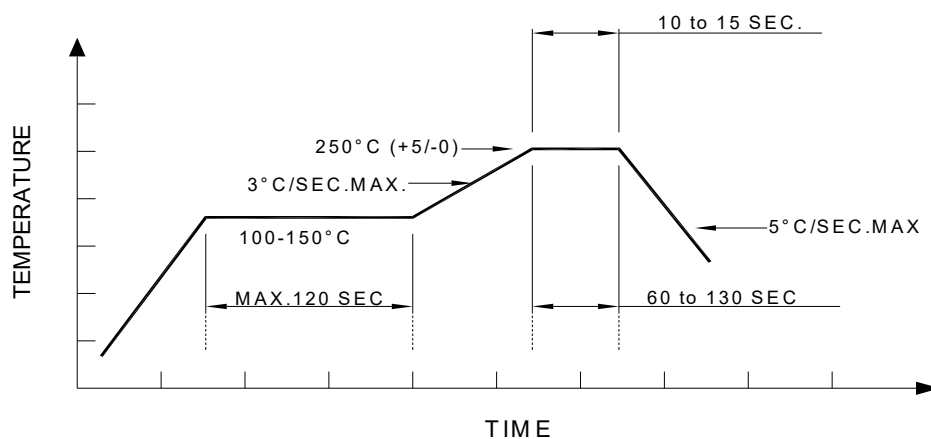
Tape Dimension:



Recommended re-flow soldering profile:



Recommended Pb-free re-flow soldering profile:



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.