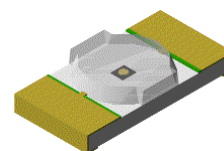


1206 Reverse Package LED

VS 8TH8M

Description

The major breakthrough in VS 8TH8M is red color emitted, package in dimension L x W x H, 3.2 * 1.3 * 0.6mm. The dice used in this series is InGaN material. The advantages of InGaN are low power consumption and obtaining high luminous intensity under low current driving condition. The Wavelengths and Luminous Intensities of this series are grouped under 5mA for uniformity. These LEDs are suitable for multiple usages in series connection applications.



Applications

- Industrial control systems signal indicator
- Automotive features
- Front panel indicator
- Status indication

Electronic Optical Characteristics (@5mA):

Part Number	Emitted Color	λ (nm)		Lens Color	Iv(mcd)		View Angle (2 θ 1/2)	VF(V)	
		λ_d	λ_p		Min.	Max.		Min.	Max.
VS 8TH8M	Red 	639	631	Clear	14	35.5	130	1.7	2.2

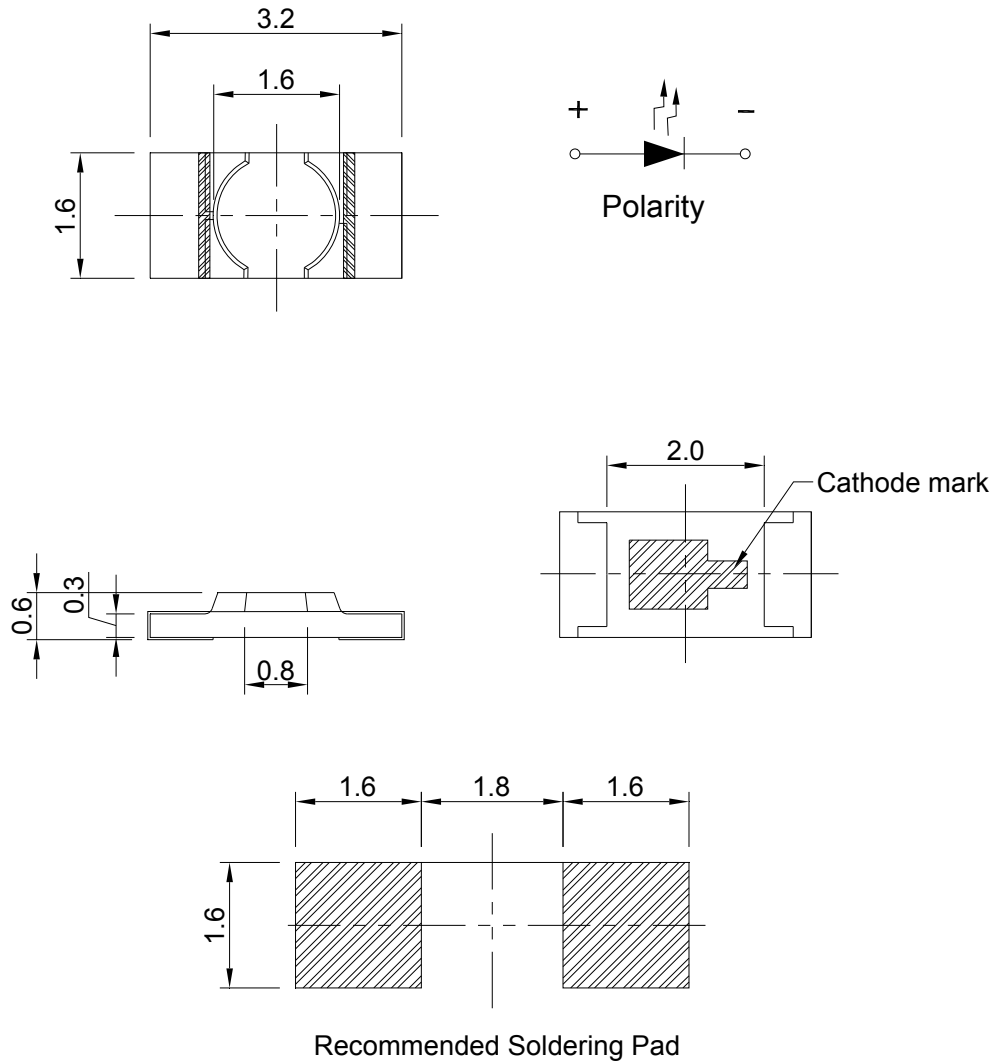
Absolute Maximum Ratings (@Ta=25°C)

Emitted Color	P _D (mW)	I _F (mA)	ESD(V)	I _R (uA) @VR=5V	Topr (°C)	Tstg (°C)
Red (631nm)	110	25	2000	10	-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:

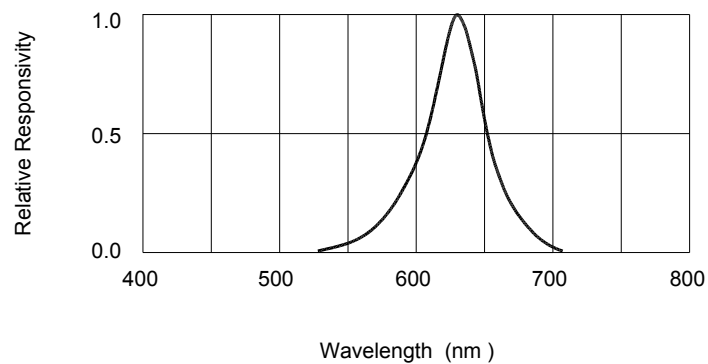
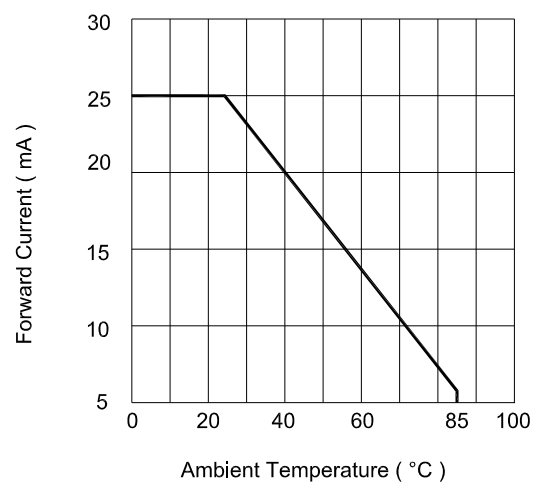
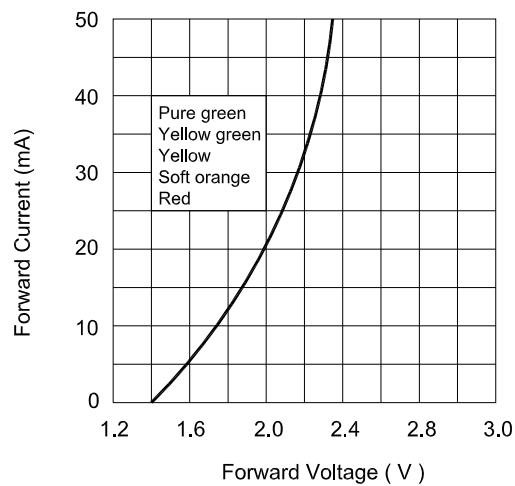
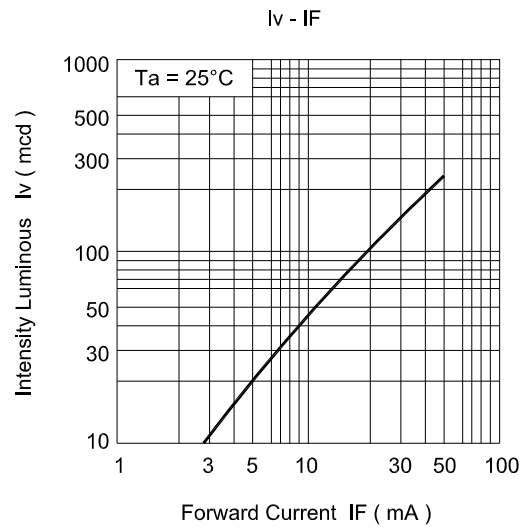
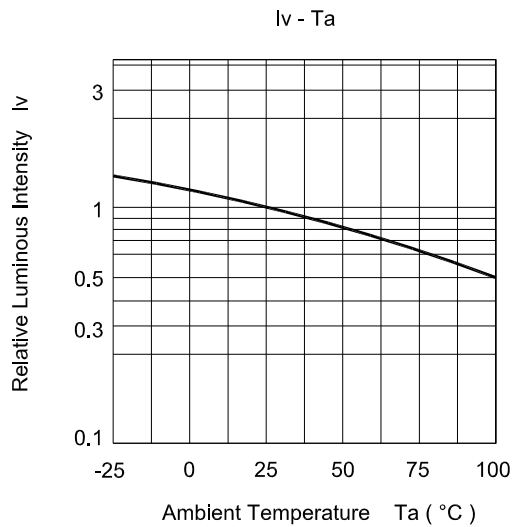
unit:mm



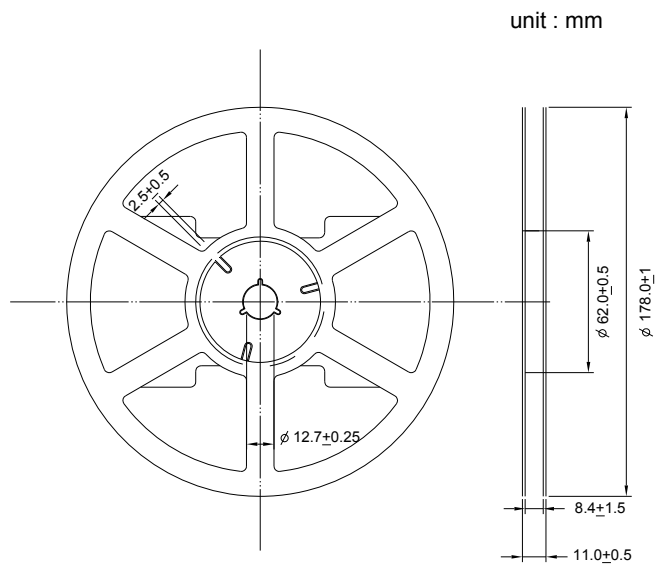
Notes:

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

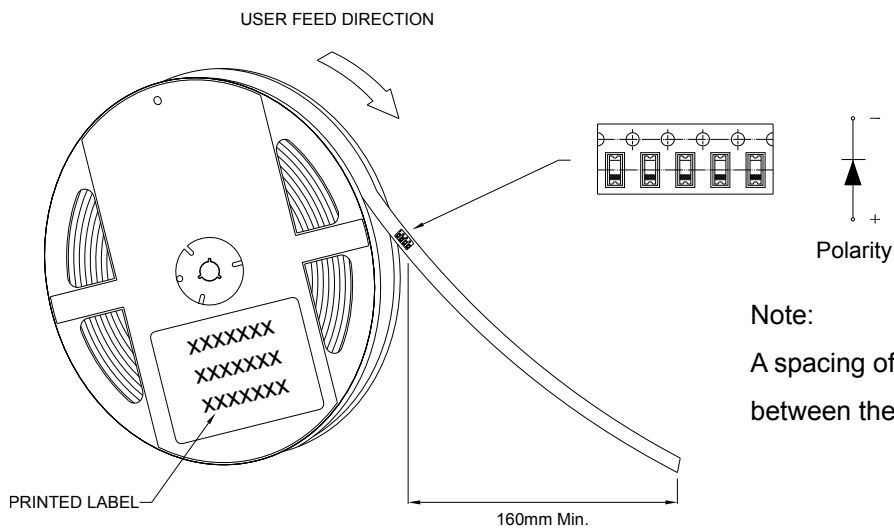


Reel Dimension:



Note:

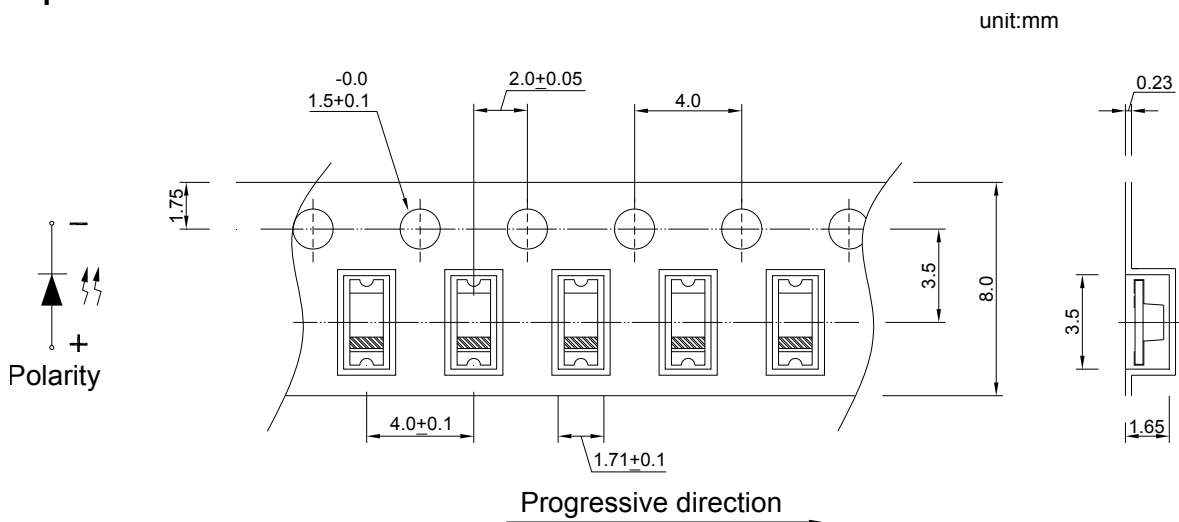
Available in 8mm carrier tape on 178mm diameter reels. (2000 pieces)



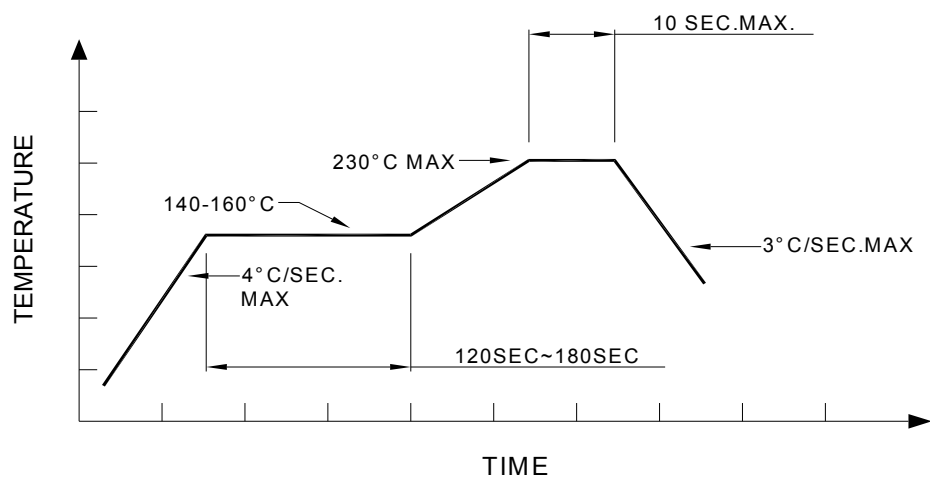
Note:

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

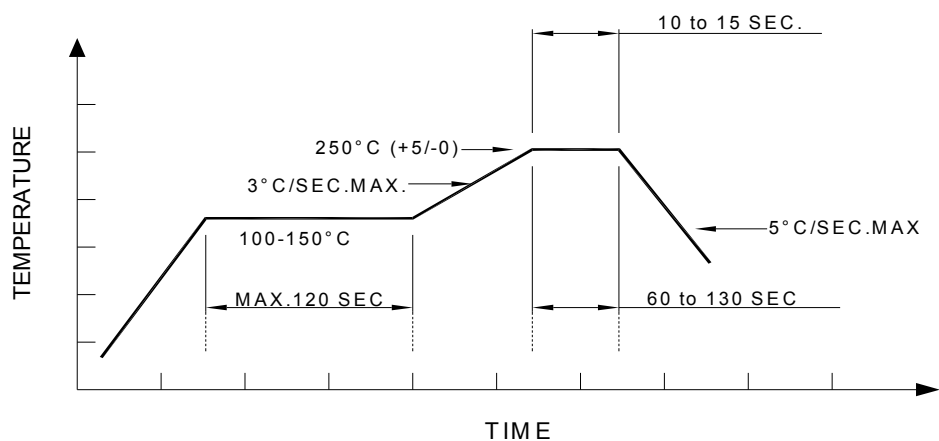
Tape Dimension:



Recommended re-flow soldering profile:



Recommended Pb-free re-flow soldering profile:



Specification for Bin Grade at 5mA Condition

Iv (mcd)			VF(Volt)			$\lambda d(\text{nm})$		
27	14	18	A	1.7	1.8	a	625.5	629.5
28	18	22.4	B	1.8	1.9	b	629.5	633.5
29	22.4	28	C	1.9	2.0	c	633.5	637.5
30	28	35.5	D	2.0	2.1	--		
--			E	2.1	2.2			