# 3.2x1.3mm Reverse SMD LED 1.1mm Height

VS 8TF8.28L

Description

The major breakthrough in VS 8TF8 is red color emitted, package in dimension L x W x H, 3.2 * 1.3 * 1.1mm. The dice used in this series is AlGaInP material rather than the conventional GaP and GaAsP/GaP. The advantages of AlGaInP 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 10mA for uniformity. These LED are suitable for multiple usages in series connection applications.
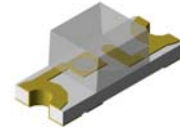
Applications

• Industrial control systems signal indicator

• Automotive features

• Front panel indicator

• Status indication

RoHS

Pb
pb-free

Electronic Optical Characteristics (at 10mA):

Part Number	Emitted Color		λ (nm)		Lens Color	Iv(mcd)		View Angle	VF(V)	
			λ d	λ p		Min.	Typ.		Typ.	Max.
VS 8TF8.28L	Red		631	639	Clear	18	32	130	1.7	2.2

Absolute Maximum Ratings (at Ta=25℃)

P_D(mW)	IFP(mA)	IF(mA)	Iron Solder (℃)	IR(uA)@V_R=5V	Topr(℃)	Tstg(℃)
60	100*	25	350 ± 5 for 3 sec.	10	-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.

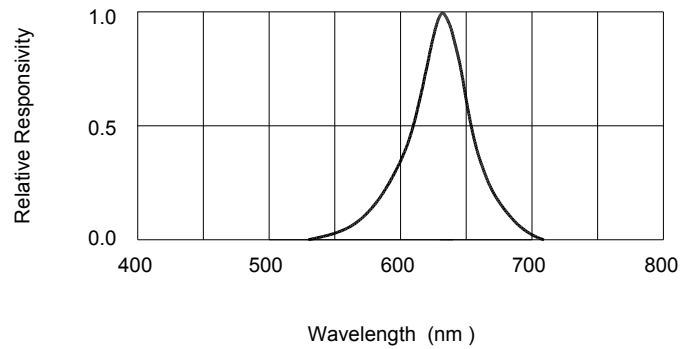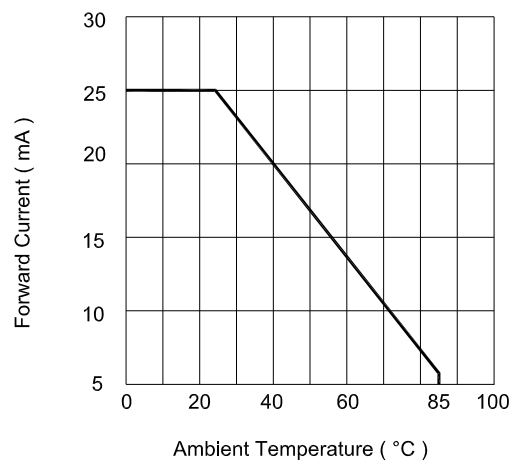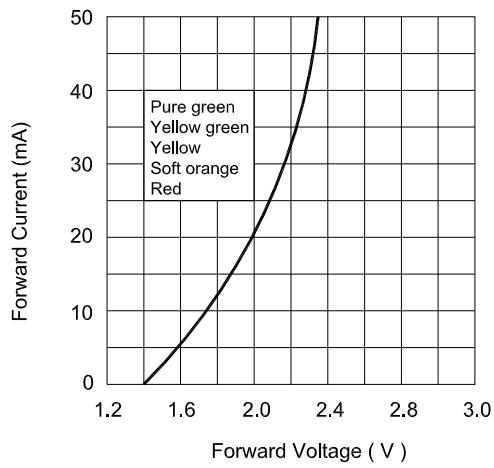＊IFP: Peak Forward Current under 1/10 duty, 1KHz condition
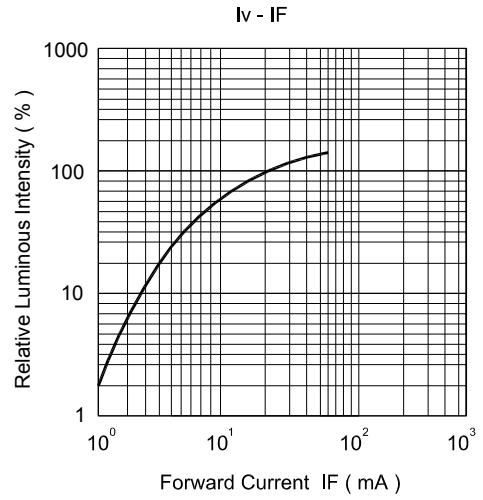
Package Dimension:
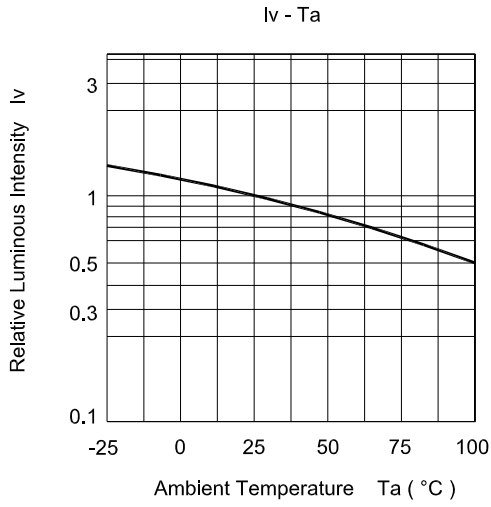
unit:mm

Polarity

Cathode Mark
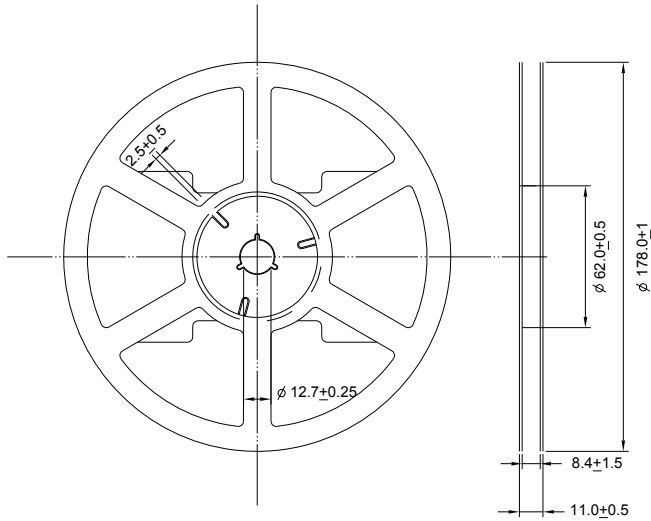
Recommended Soldering Pad
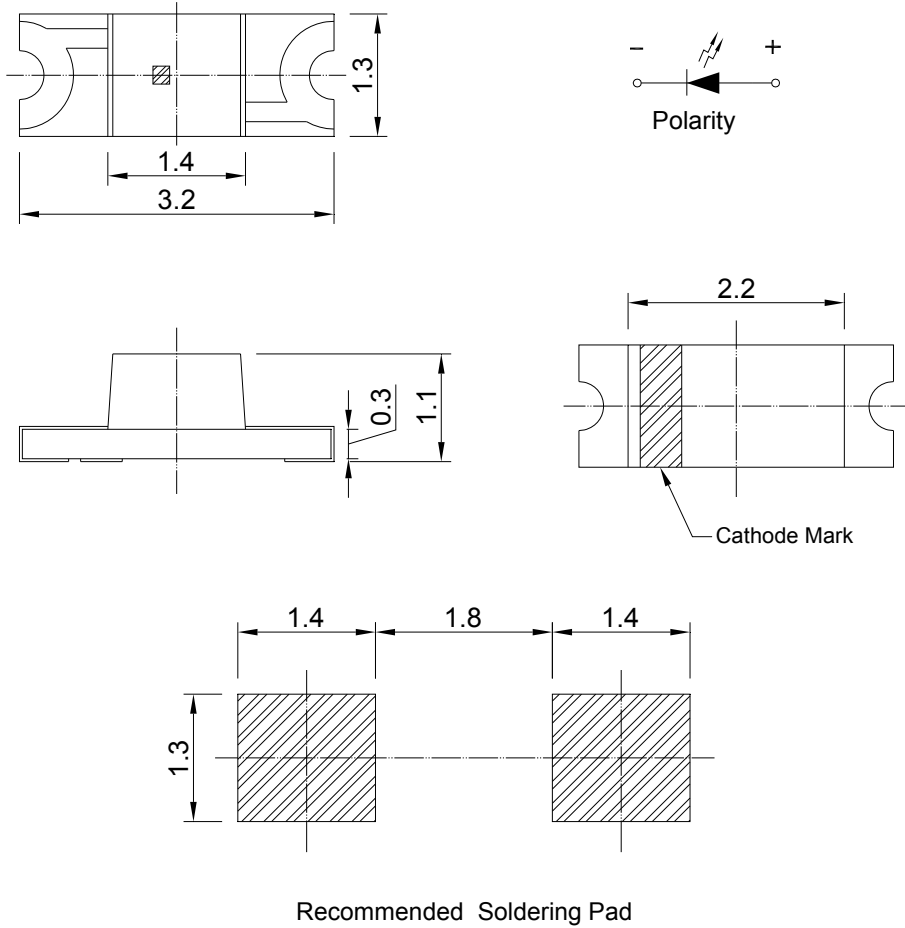
Notes:

1. All dimensions are millimeters.

2. Tolerance is ± 0.2mm unless otherwise specified.

3. Specifications are subject to change without notice.

Optical Characteristics Curves

Iv - Ta

Relative Luminous Intensity　Iv

3
1
0.5
0.3
0.1

-25　0　25　50　75　100

Ambient Temperature　Ta (°C)

Iv - IF

Relative Luminous Intensity (%)

1000
100
10
1

10^0　10^1　10^2　10^3

Forward Current　IF (mA)

Forward Current (mA)

50
40
30
20
10
0

Pure green
Yellow green
Yellow
Soft orange
Red

1.2　1.6　2.0　2.4　2.8　3.0

Forward Voltage (V)

Forward Current (mA)

30
25
20
15
10
5

0　20　40　60　85　100

Ambient Temperature (°C)

Relative Responsivity

1.0
0.5
0.0

400　500　600　700　800
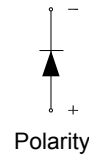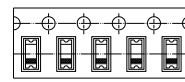
Wavelength　(nm)
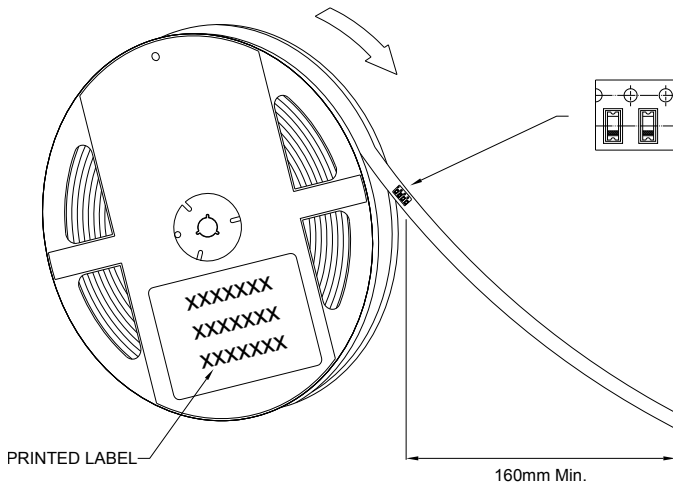
Reel Dimension:

unit : mm

Note:

Available in 8mm carrier tape on 178mm diameter reels. (3,000 pieces)

USER FEED DIRECTION

Polarity

Note:

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

PRINTED LABEL

160mm Min.

Tape Dimension:

unit:mm

Polarity

Progressive direction

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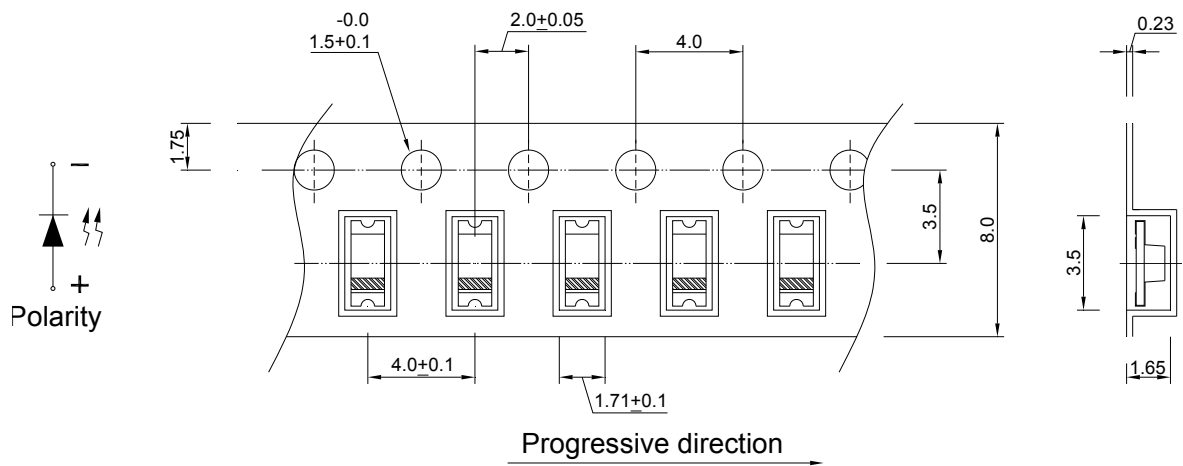
Recommended Pb-free re-flow soldering profile:
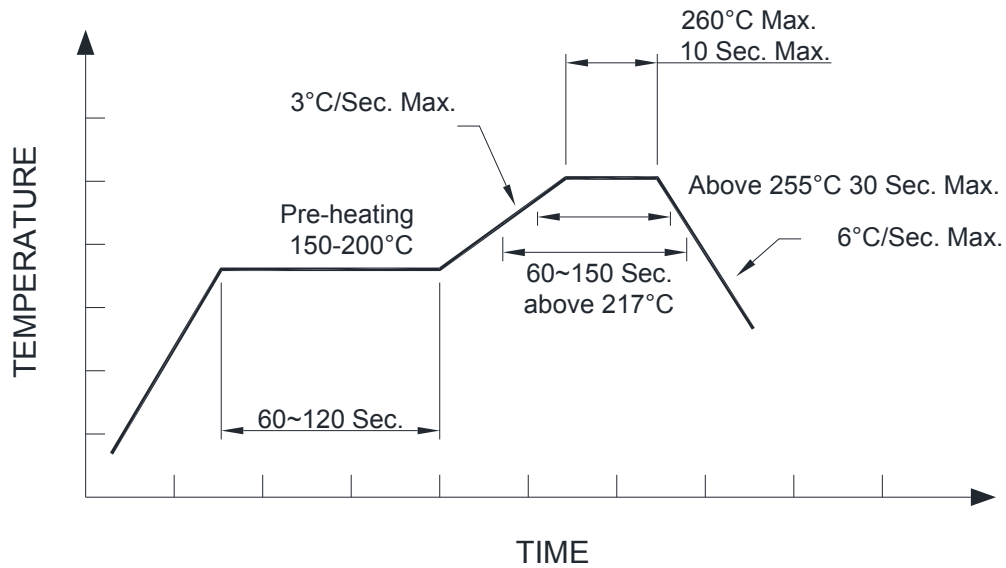
Note:

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.