0402 Package SMD LED 0.2mm Height

VS 1698M

Description

The major breakthrough in VS 1698M Yellow color emitted is package in dimension L x W x H, 1.0 * 0.5 * 0.2 mm ns. The dice used in this series is AlGaInP material. 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 5mA for uniformity. These LED are suitable for multiple usages in series connection applications.

Applications

- Cellular phone display
- Backlight keypads
- Industrial control systems signal indicator
- Automotive features

RoHS

Pb
pb-free

Electronic Optical Characteristics (at 5mA):

Part Number	Emitted Color	λ (nm)		Lens	Iv(mcd)		View	VF(V)	
		λ d	λ p	Color	Min.	Typ.	Angle	Typ.	Max.
VS 1698M	Yellow	589	591	Clear	18	30	120	2.0	2.4

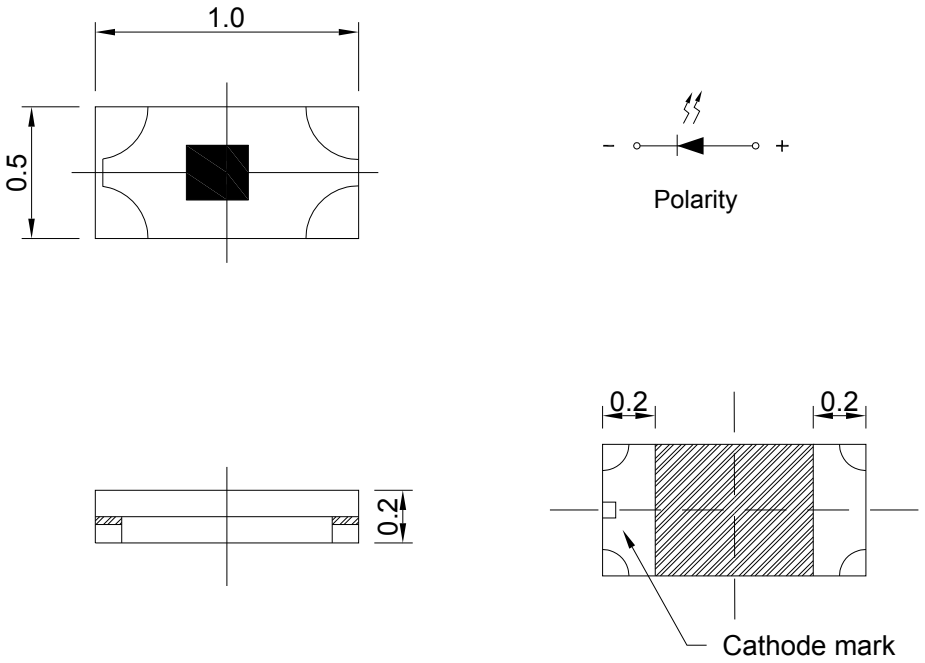
Absolute Maximum Ratings (at Ta=25℃)

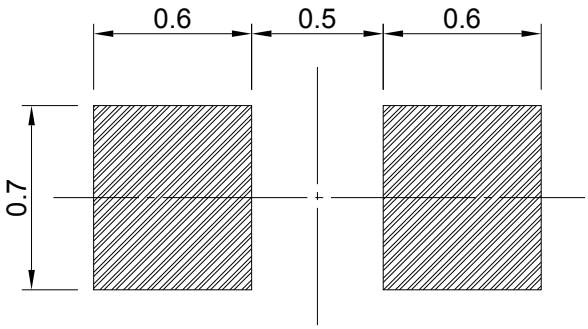
P_D(mW)	I_{FP}(mA)	I_F(mA)	Iron Solder(℃)	I_R(uA)@$V_{R=}$5V	Topr(℃)	Tstg(℃)
60	100*	25	350 ± 5 for 3 sec.	10	-40~+85	-40~+100

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.

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

Package Dimension:





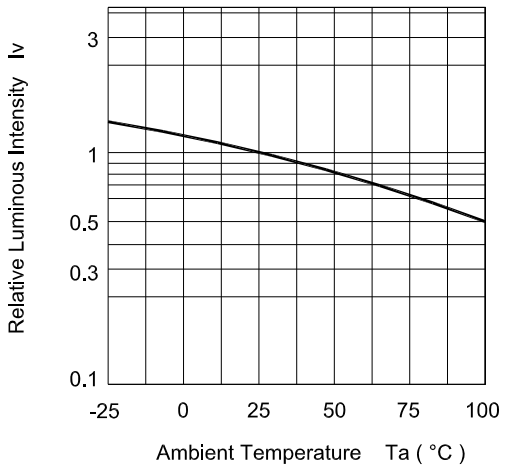
Recommended Soldering Pad

Notes:

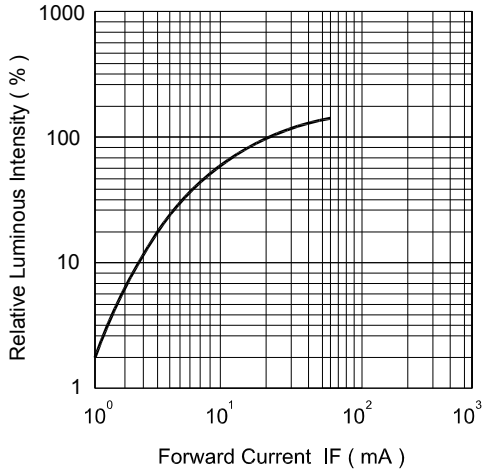
1. All dimensions are millimeters.
2. Tolerance is ± 0.2mm unless otherwise specified.
3. Specifications are subject to change without notice.

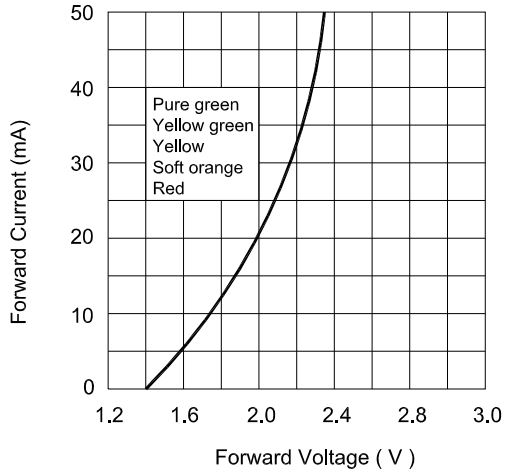
Typical Electro-optical Characteristics Curves

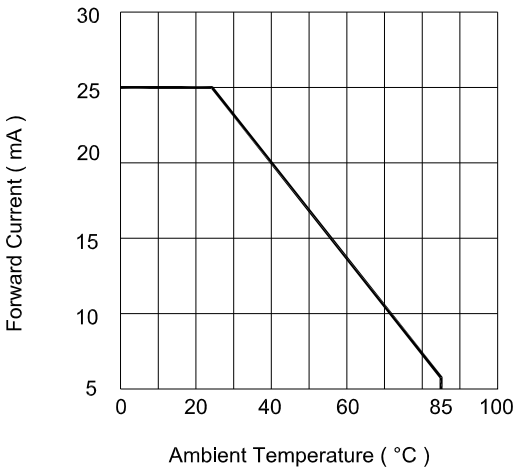
Iv - Ta

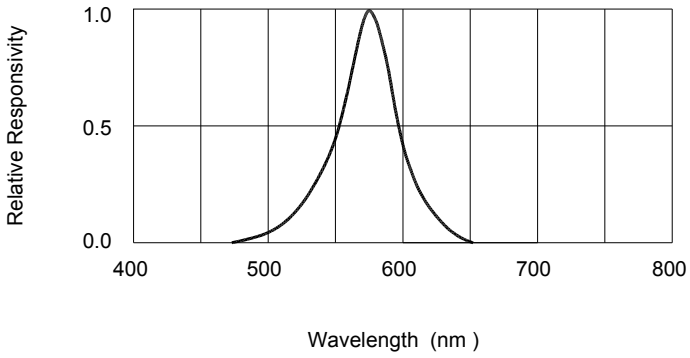


Iv - IF



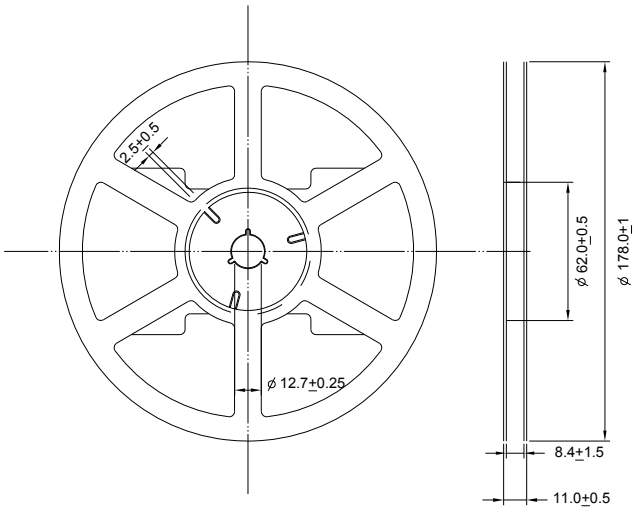






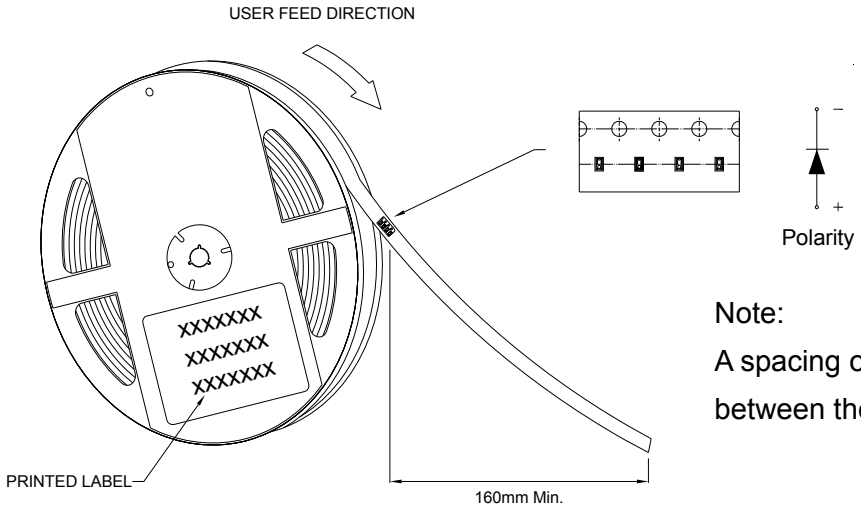
Reel Dimension:

unit : mm



Note:

Available in 8mm carrier tape on 178mm diameter reels. (3000 pieces)

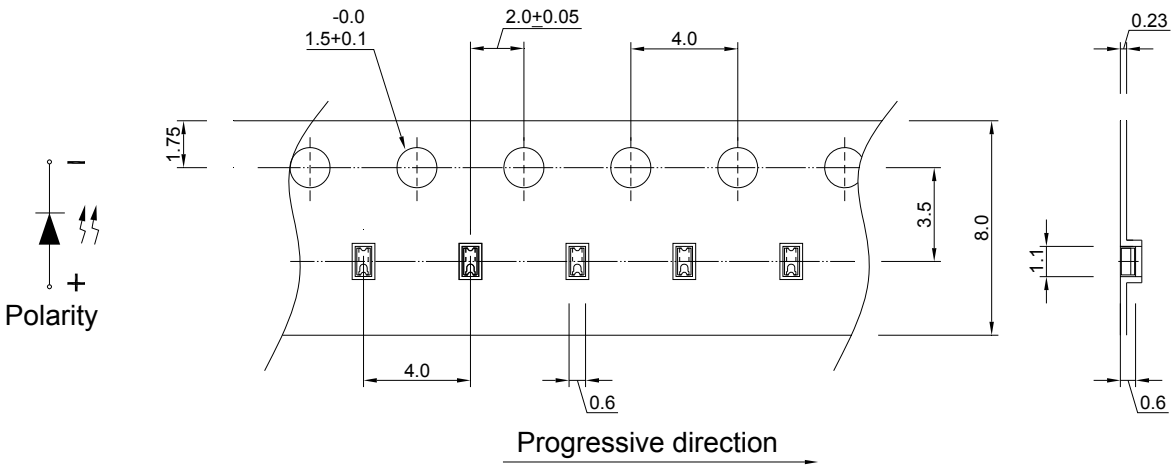


Note:

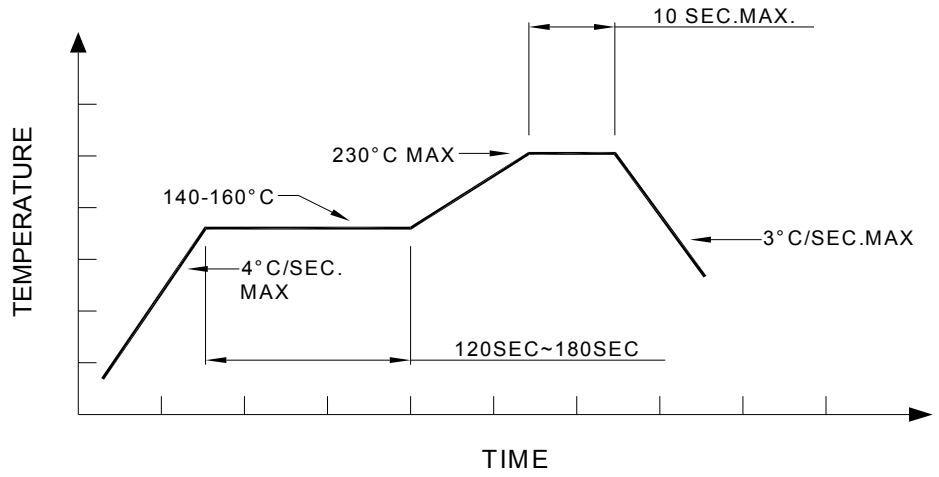
A spacing of approximately 160mm between the front edge of tape

Tape Dimension:

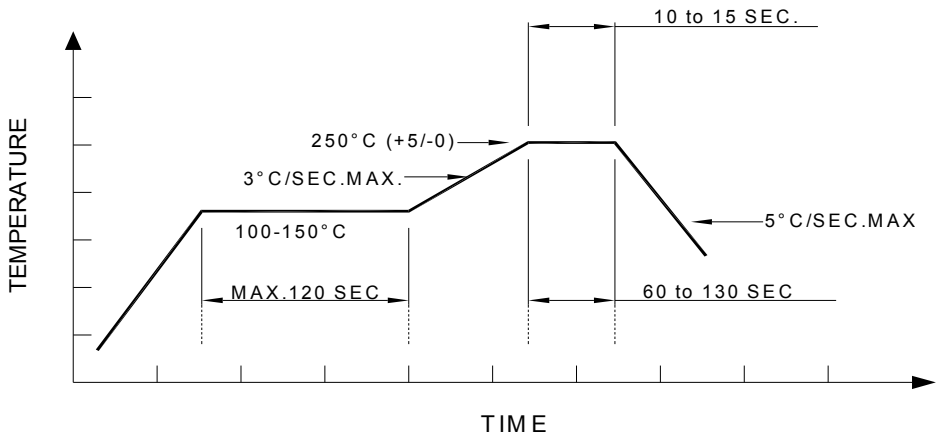
unit:mm



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.