

0402 Package SMD LED 0.3mm Height

VS 16A8M

Description

The major breakthrough in VS 16A8M Yellow color emitted is package in dimension L x W x H, 1.0 * 0.5 * 0.3 mm. 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 5mA for uniformity. These LEDs are suitable for multiple usages in series connection applications.



Applications

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

Electronic Optical Characteristics (at 5mA):

Part Number	Emitted Color	λ (nm)		Lens Color	Iv(mcd)		View Angle	VF(V)	
		λ_d	λ_p		Min.	Typ.		Typ.	Max.
VS 16A8M	Yellow 	589	591	Clear	14	28	120	2.15	2.35

Absolute Maximum Ratings (at Ta=25°C)

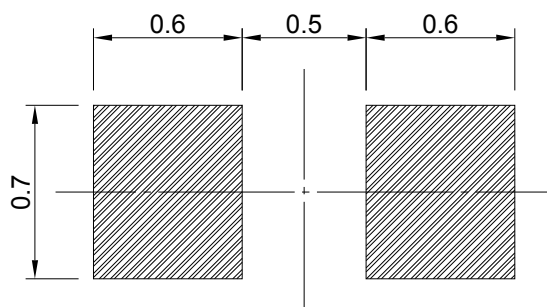
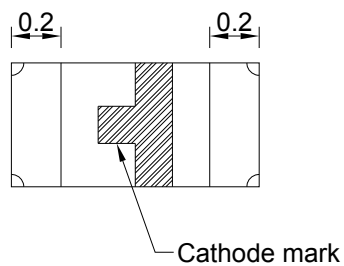
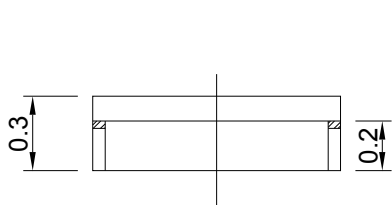
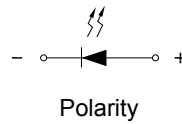
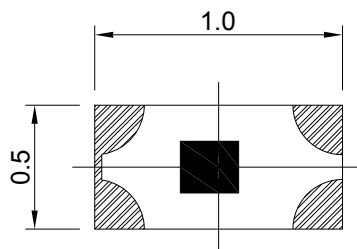
P _D (mW)	I _{FP} (mA)	I _F (mA)	Iron Solder(°C)	I _R (uA)@V _R =5V	Topr(°C)	Tstg(°C)
60	60*	25	350 ± 5 for 3 sec.	10	-40~+85	-40~+100

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.

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

Package Dimension:

unit:mm

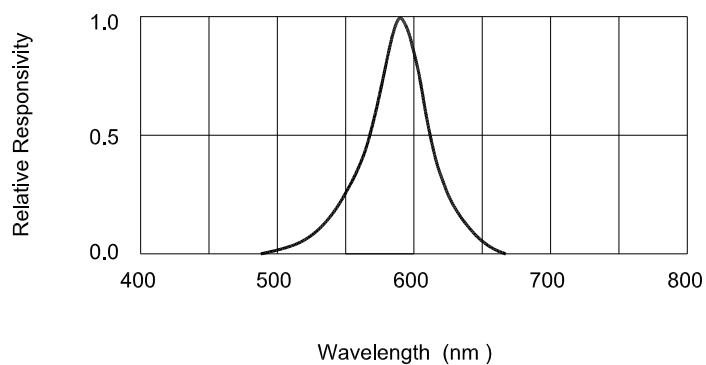
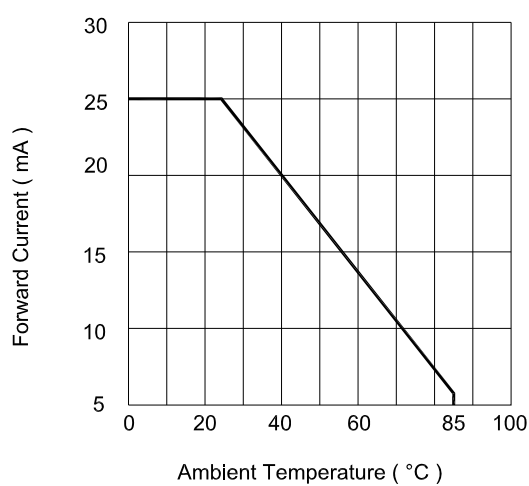
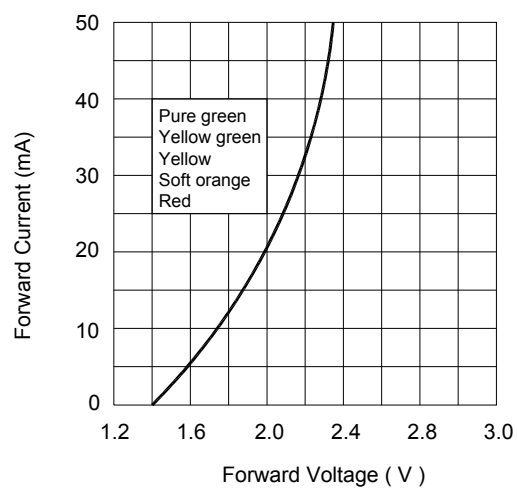
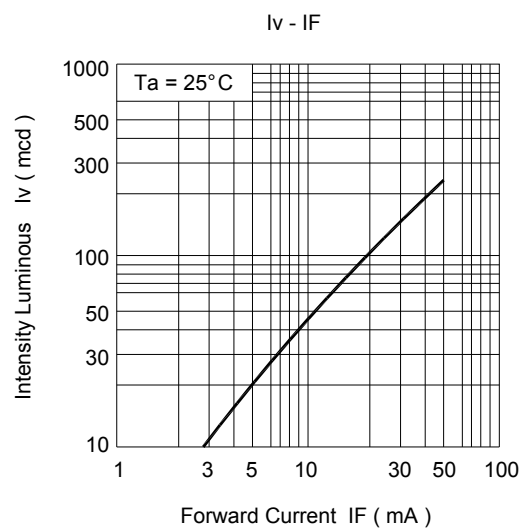
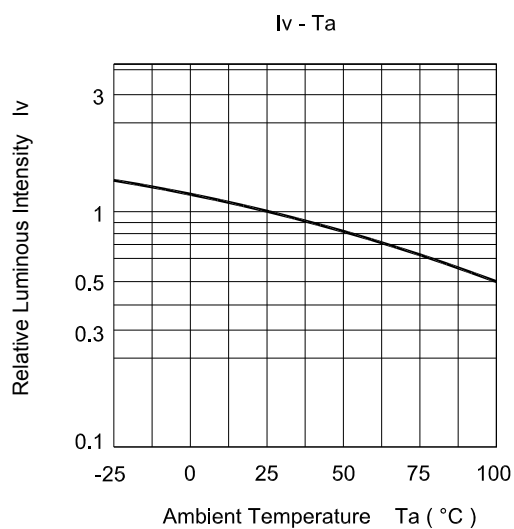


Recommended Soldering Pad

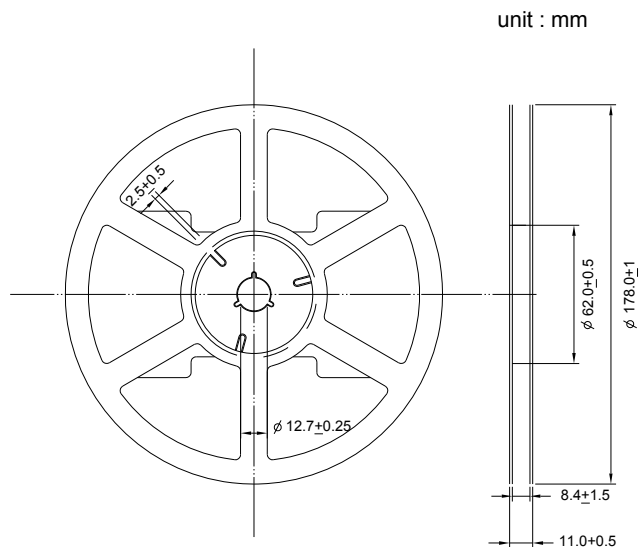
Notes:

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

Typical Electro-optical Characteristics Curves

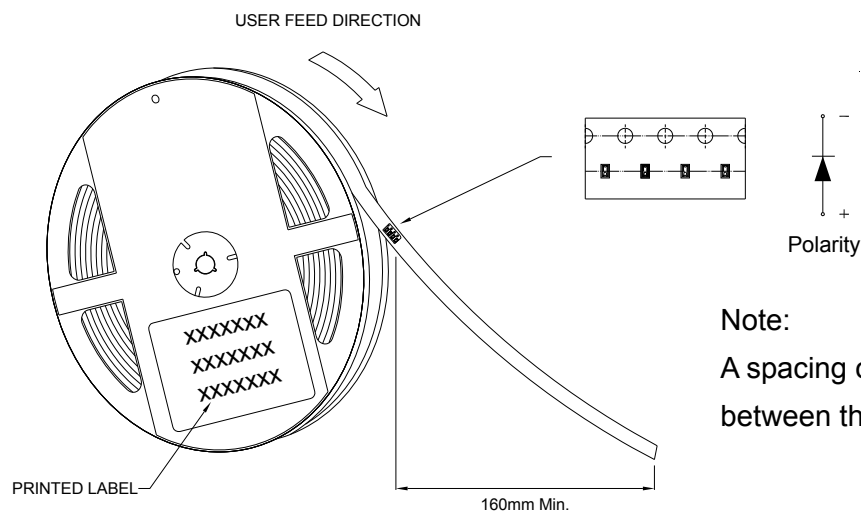


Reel Dimension:



Note:

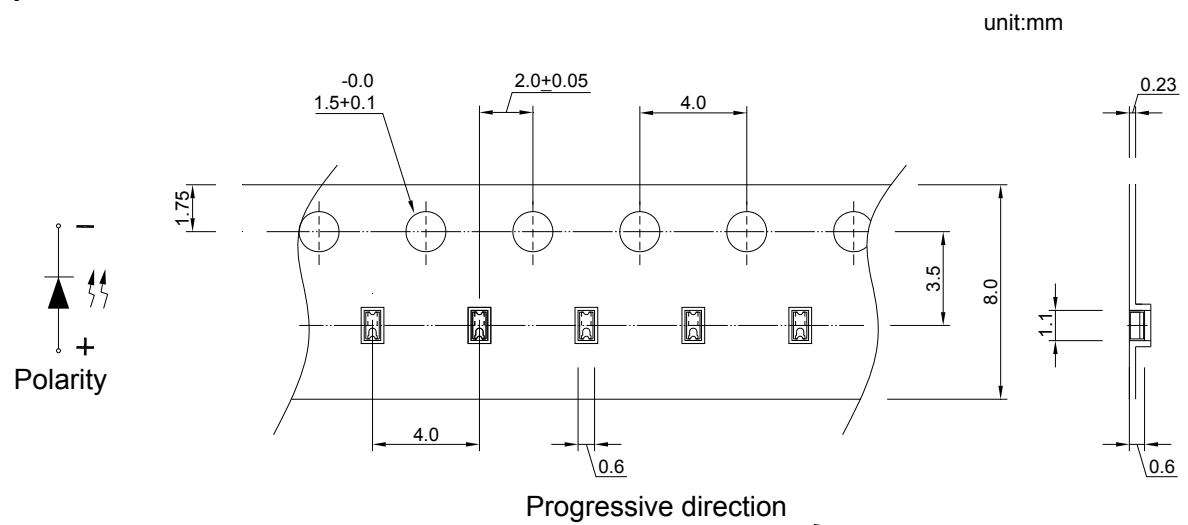
Available in 8mm carrier tape on 178mm diameter reels. (3000 pieces)



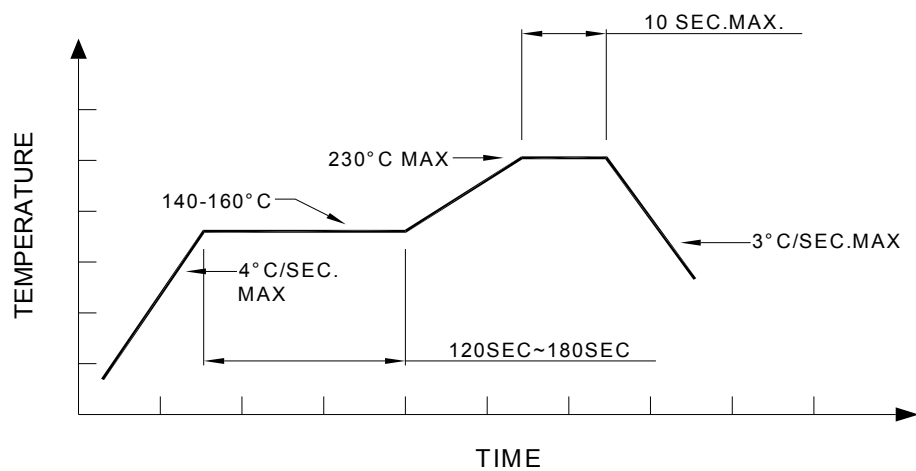
Note:

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

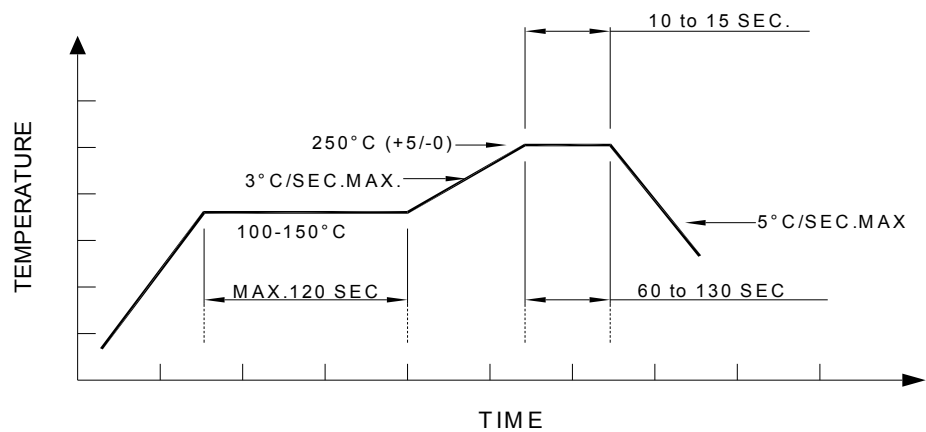
Tape Dimension:



Recommended re-flow soldering profile:



Recommended Pb-free re-flow soldering profile:



Specification for bin grade @ 5 mA

LI (mcd)			VF (Volt)			WL(nm)		
Code	Min.	Max.	Code	Min.	Max.	Code	Min	Max
27	14.5	18	2	1.75	1.95	O	588.5	591.5
28	18	22.4	3	1.95	2.15	P	591.5	594.5
29	22.4	28	4	2.15	2.35	--	--	--
30	28	35.5	--	--	--	--	--	--