

1206 Reverse Package Yellowish Green LED

Features

- Package in 8mm tape on 7” diameter reel
- Compatible with automatic placement equipment
- Compatible with infrared and vapor phase reflow solder process
- Mono-color type
- RoHS



M3216



Descriptions

- The SMD series enable smaller board size, higher packing density, reduced storage space, and finally small equipment to be obtained.
- Besides, light weight makes them ideal for miniature applications, etc.

Applications

- Automotive: backlighting in dashboards and switches.
- Telecommunication: Indicator and backlighting in the telephone and fax.
- Flat backlight for LCD, switch and symbol.
- General use.

Device Selection Guide

Part No.	Chip		Lens Color
	Material	Emitted Color	
TSP3-FF3216E2	AlInGaP	Yellowish Green	Water Clear

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	25	mA
Peak Forward Current (Duty 1/10 @1KHz)	IFP	60	mA
Power Dissipation	Pd	60	mW
Electrostatic Discharge (HBM)	ESD	2000	V
Operating Temperature	Topr	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +90	°C
Soldering Temperature	Tsol	260 ± 5	°C

Note 1:

Soldering time ≤ 5 seconds

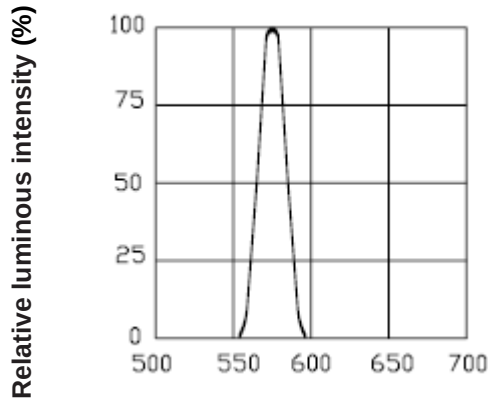
Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	I_v	16	22	-----	mcd	IF=20mA
Viewing Angle	$2\theta_{1/2}$	-----	130	-----	deg	
Peak Wavelength	λ_p	-----	575	-----	nm	
Dominant Wavelength	λ_d	-----	573	-----	nm	
Spectrum Radiation Bandwidth	$\Delta\lambda$	-----	20	-----	nm	
Forward Voltage	V_F	-----	2.0	2.4	V	
Reverse Current	I_R	-----	-----	10	uA	VR=5V

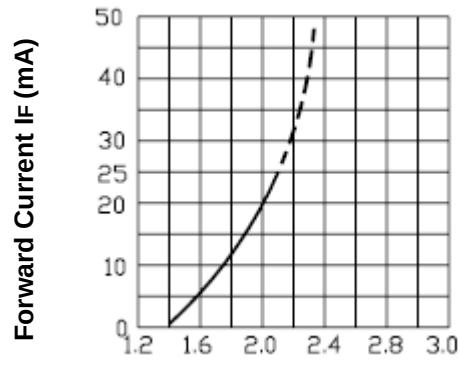
Notes: Tolerance of Luminous Intensity: $\pm 10\%$
Tolerance of Dominant wavelength: $\pm 1.0\text{nm}$
Tolerance of Forward Voltage: $\pm 0.1\text{V}$

Typical Electro-Optical Characteristics Curves ($T_a=25^\circ\text{C}$)

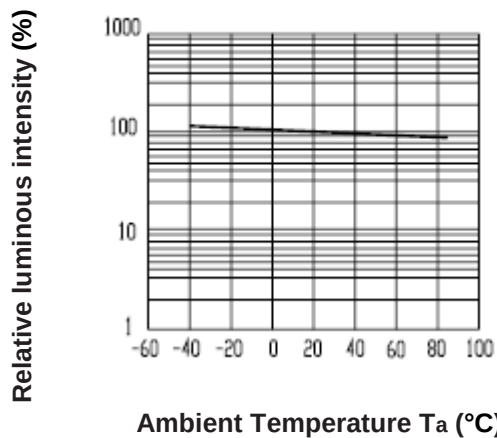
Spectrum Distribution



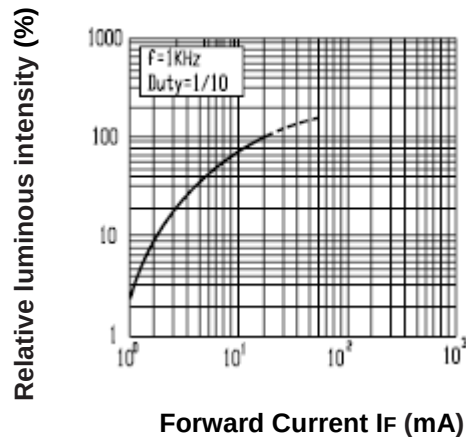
Forward Current vs. Forward Voltage



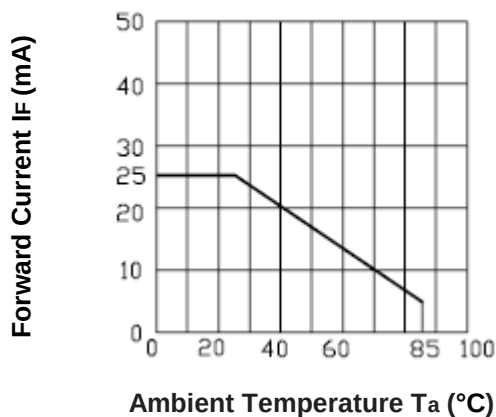
Luminous Intensity vs. Ambient Temperature



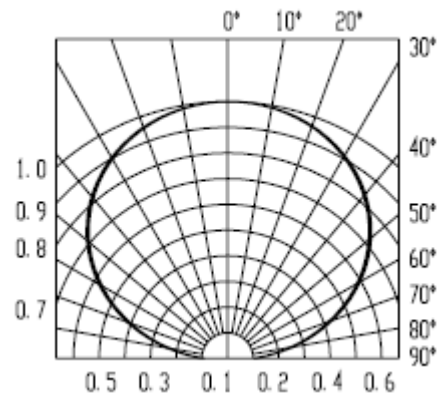
Luminous Intensity vs. Forward Current



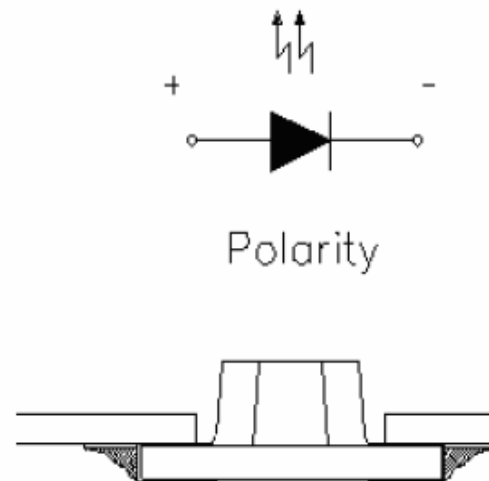
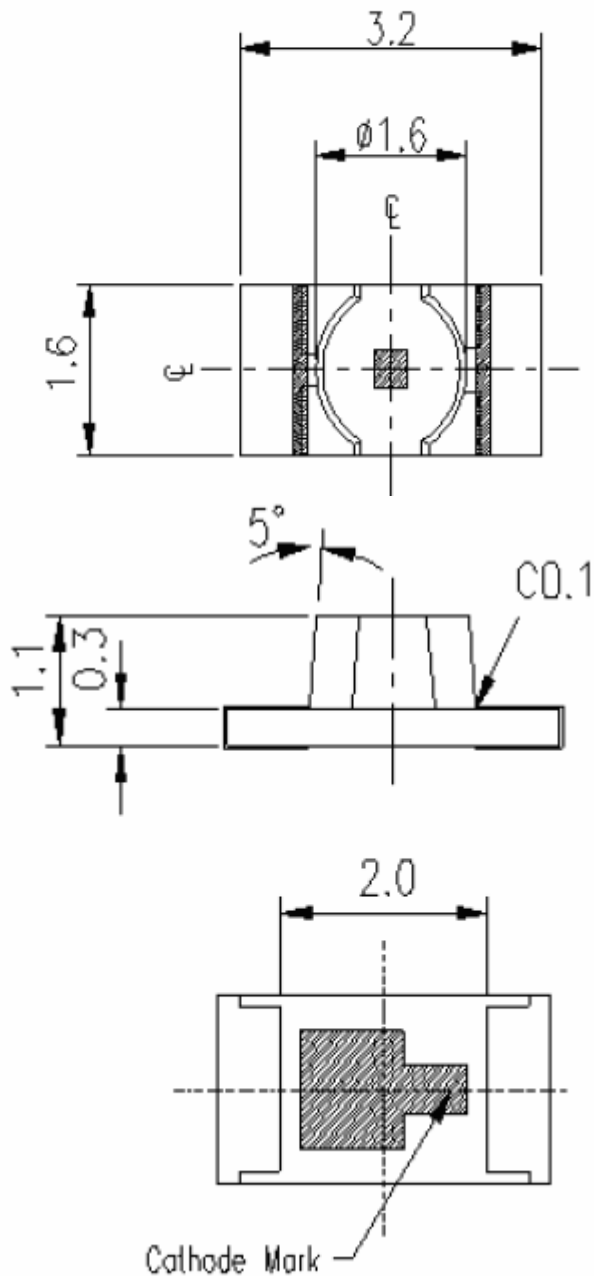
Forward Current Derating Curve



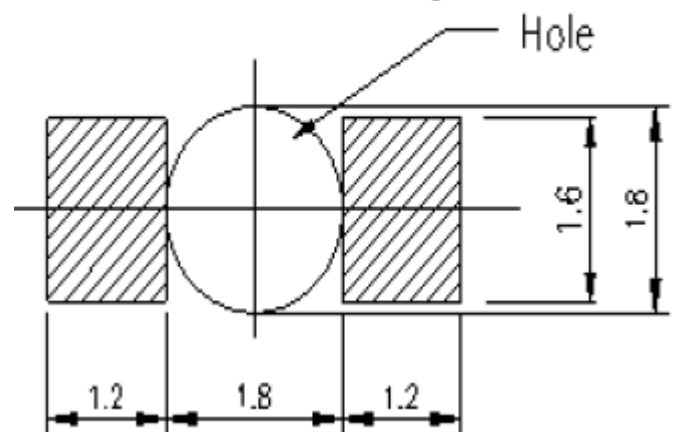
Radiation Diagram



Package Outline Dimensions (Unit=mm)



For Reflow Soldering



Note: The tolerances unless mentioned is ± 0.1 mm, Angle is $\pm 0.5^\circ$, Unit = mm

TSP3-FF3216E2

Technical drawing of a 5-pin D-sub connector. The drawing includes a top view and a side view.

Top View Dimensions:

- Pin pitch: 2.0 ± 0.05
- Pin diameter: $\phi 1.5 \pm 0.1$
- Pin height: 1.75
- Pin width: 0.23 ± 0.09
- Pin spacing: 4.0
- Pin width: 1.73

Side View Dimensions:

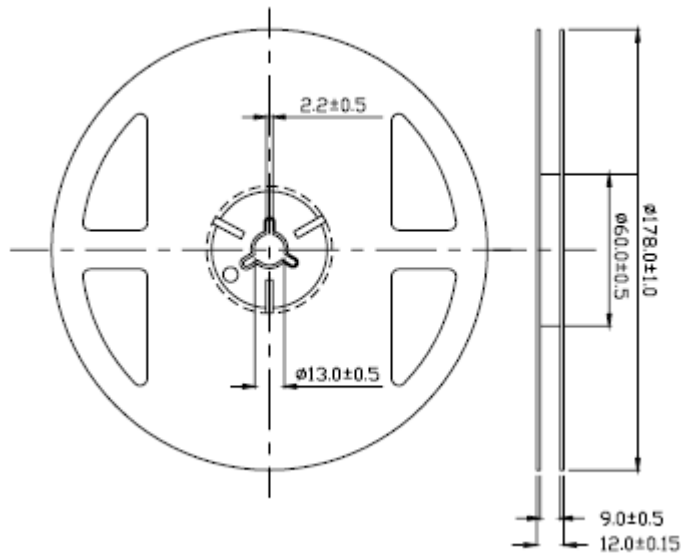
- Total height: 8.0 ± 0.2
- Pin height: 3.50 ± 0.05
- Pin width: 0.23 ± 0.09

Polarity:

- Positive (+) terminal: Pin 1
- Negative (-) terminal: Pin 5

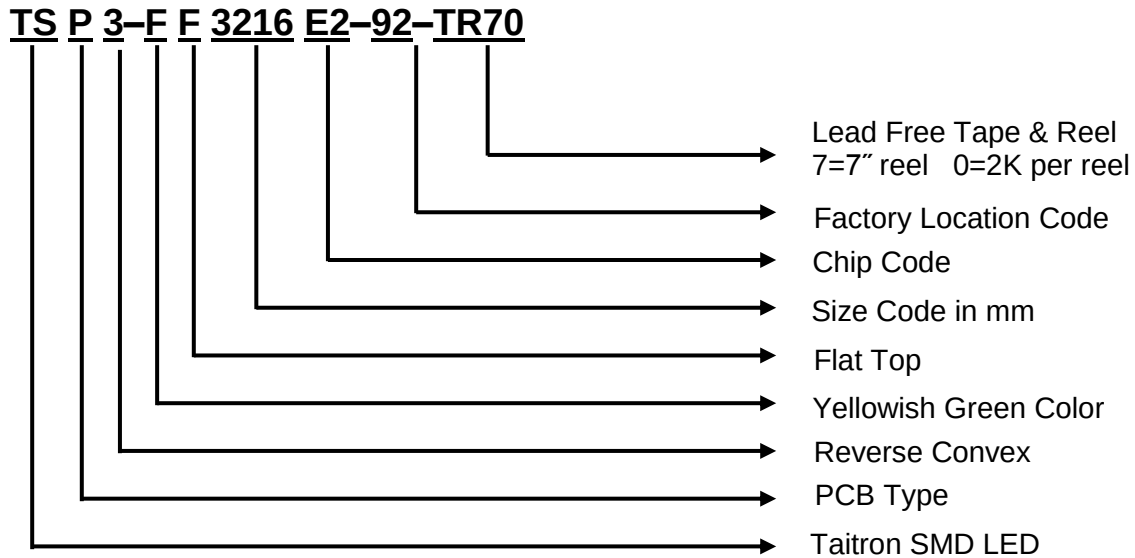
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Reel Dimensions (Unit=mm):



Note: The tolerances unless mentioned is $\pm 0.1\text{mm}$.

Ordering Information

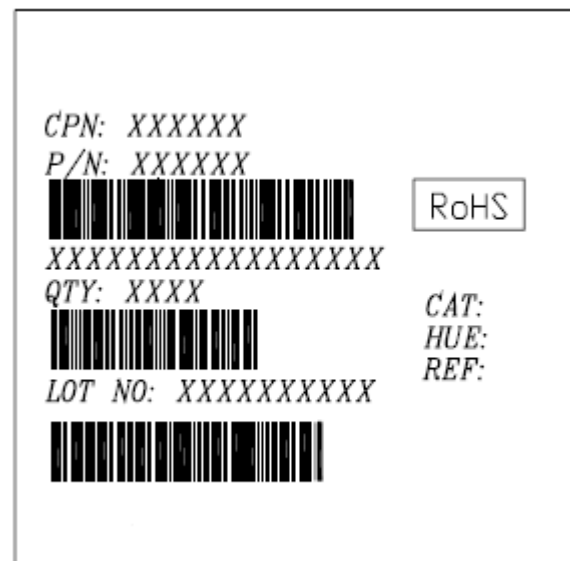


Label Explanation

CAT: Luminous Intensity Rank

HUE: Dominant Wavelength Rank

REF: Forward Voltage Rank



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