



0603 PACKAGE 0.6mm HEIGHT YELLOWISH GREEN LED TSP1-FF1608H6-2630

0603 Package 0.6mm Height 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



QSLP1FF1



Descriptions

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

Applications

- Automotive: backlighting in dashboard and switch
- Telecommunication: indicator and backlighting in telephone and fax
- Flat backlight for LCD, switches and symbols
- General use

Device Selection Guide

Part No.	Chip		Lens Color
	Material	Emitted Color	
TSP1-FF1608H6-2630	AlInGaP	Yellowish Green	Water Clear

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Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	25	mA
Operating Temperature	Topr	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +90	°C
Electrostatic Discharge	ESD	150	V
Power Dissipation	Pd	110	mW
Peak Forward Current (Duty 1/10 @1KHz)	IFP	100	mA
Soldering Temperature	Tsol	Reflow Soldering: 260°C for 10 sec.	
		Hand Soldering: 350 °C for 3 sec.	

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Electro-Optical Characteristics (Ta=25°C)

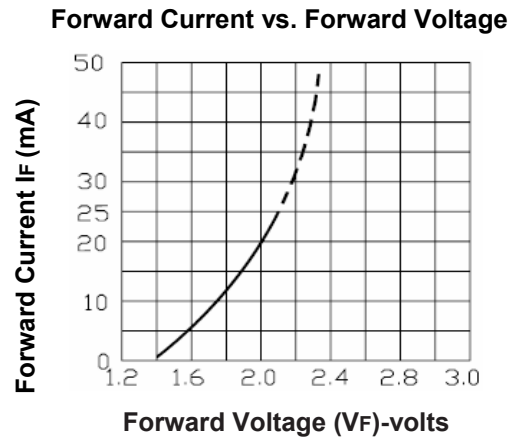
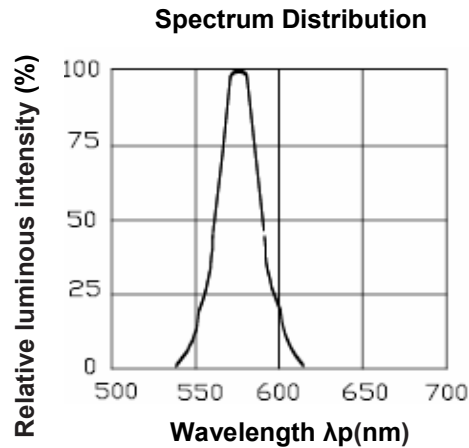
Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	I_v	35	-----	70.7	mcd	IF=20mA
Peak Wavelength	λ_p	-----	570	-----	nm	
Dominant Wavelength	λ_d	568.5	-----	574.5	nm	
Spectrum Radiation Bandwidth	$\Delta \lambda$	-----	20	-----	nm	
Viewing Angle	$2\theta_{1/2}$	-----	120	-----	deg	
Forward Voltage	V_F	1.75	-----	2.35	V	VR=5V
Reverse Current	I_R	-----	-----	10	μA	

Notes: Tolerance of Luminous Intensity $\pm 10\%$
Tolerance of Dominant wavelength $\pm 1\text{nm}$
Tolerance of Forward Voltage $\pm 0.1\text{V}$

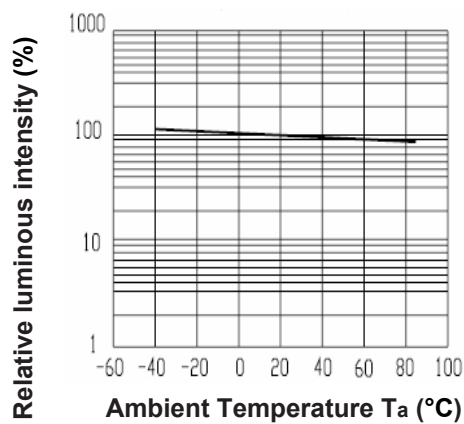
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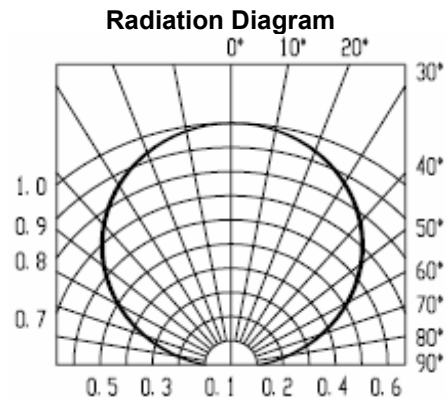
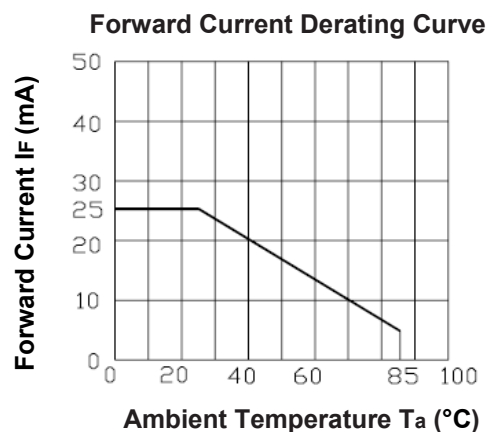
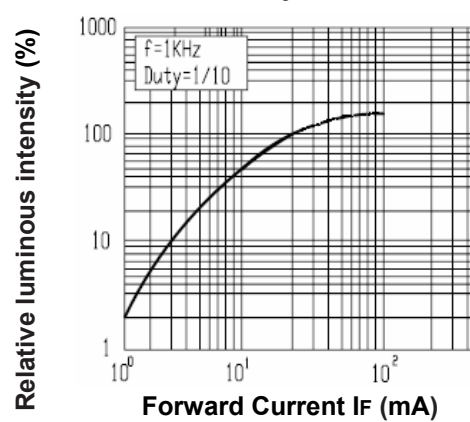
Typical Electro-Optical Characteristics Curves (Ta=25°C)



Luminous Intensity vs. Ambient Temperature



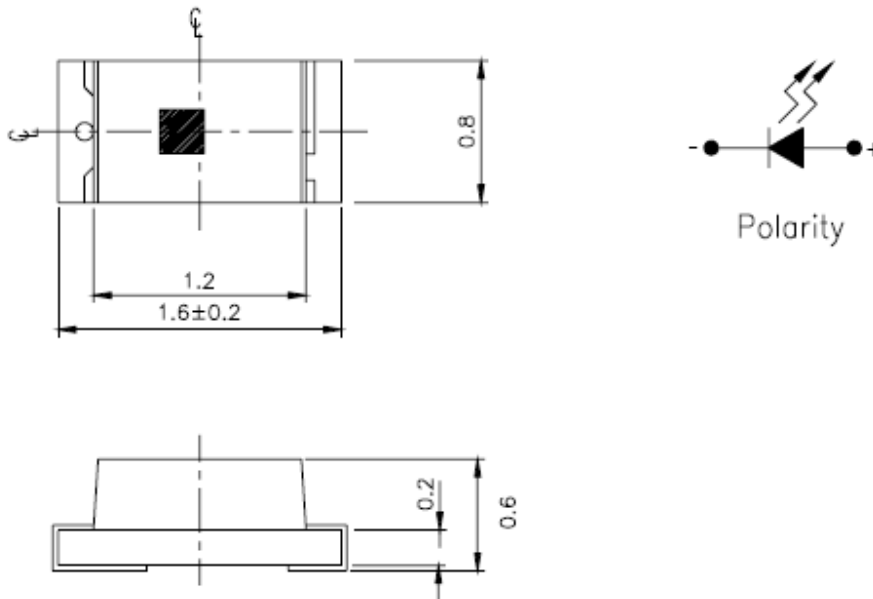
Luminous Intensity vs. Forward Current



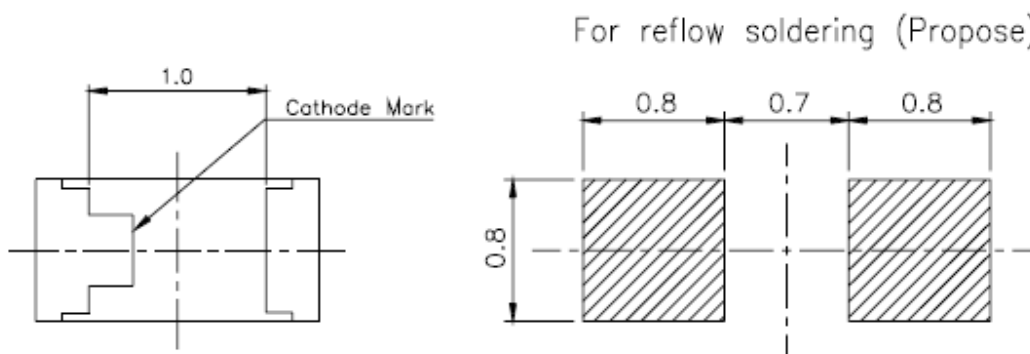
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Package Outline Dimensions (Unit=mm)



Note: The tolerances unless mentioned is ± 0.1 mm, Unit = mm

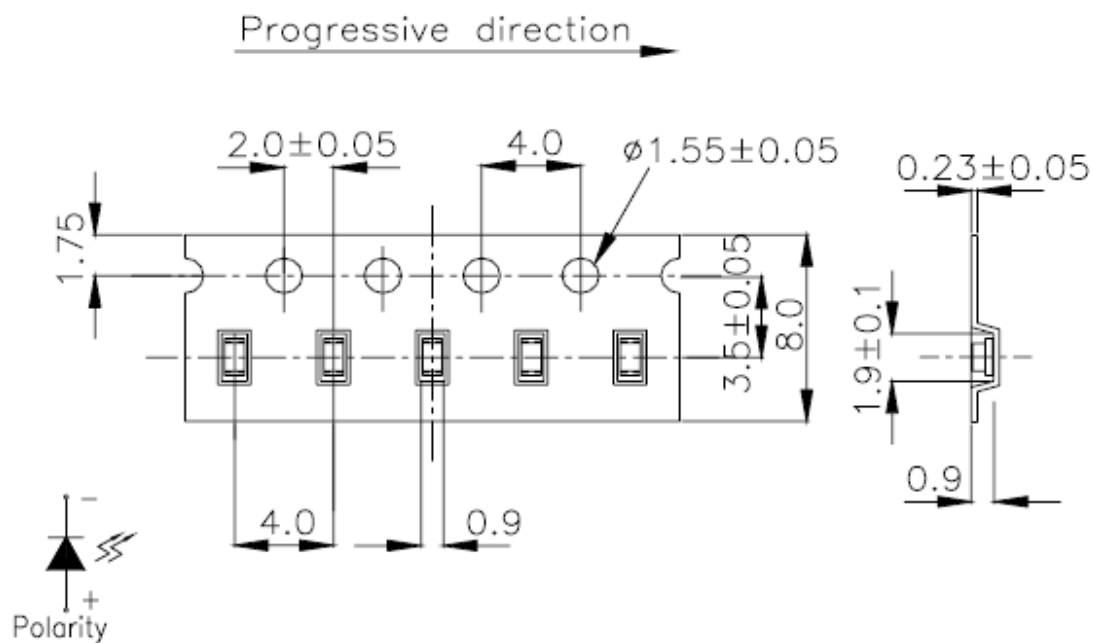


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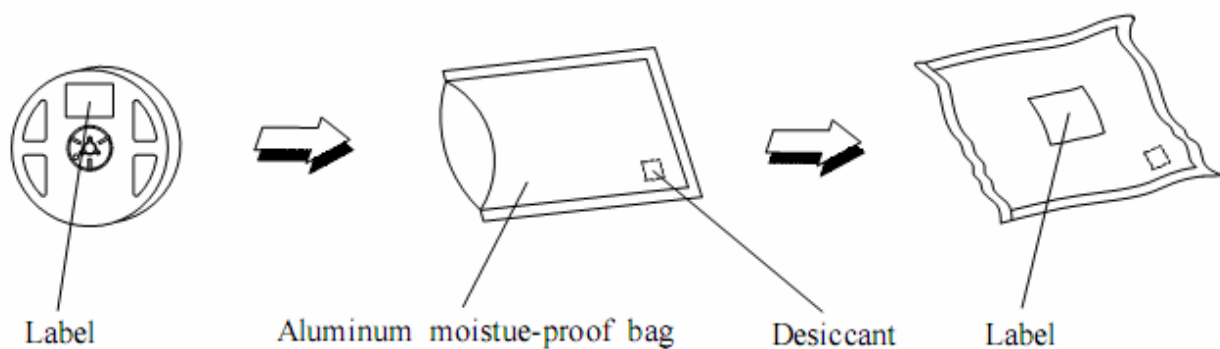
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Carrier Tape Dimensions (Unit=mm): Loaded quantity 2000pcs per reel



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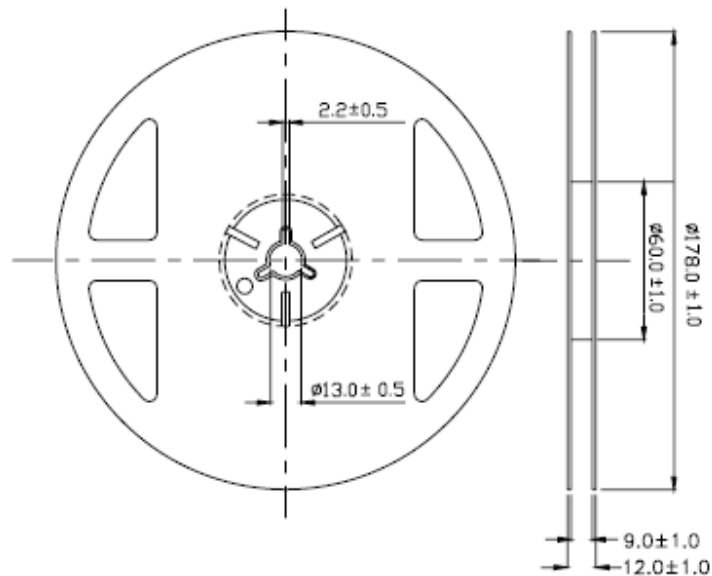
Moisture Resistant Packaging



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Reel Dimensions (Unit=mm):

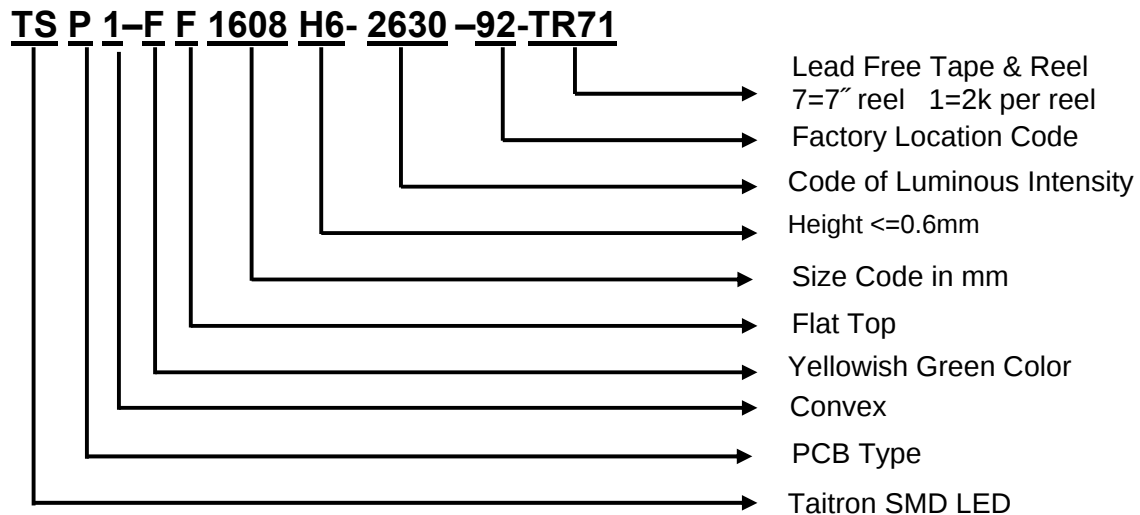


Note: The tolerances unless mentioned is $\pm 0.1\text{mm}$.

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Ordering Information



Label Explanation

CAT: Luminous Intensity Rank

HUE: Dom. Wavelength Rank

REF: Forward Voltage Rank

CPN :
P/N: XXXXXXXXXXXX

XX-XXXXXXXX
QTY: XXXX

LOT NO: XXXXXXXXXXXX

CAT: Bin Iv
HUE: Bin λd
REF: Bin VF

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Bin Range of HUE

Groups	Bin Code	Min	Max	Unit	Condition
F	CC1	568.5	570.0	nm	IF=20mA
	CC2	570.0	571.5		
	CC3	571.5	573.0		
	CC4	573.0	574.5		

Bin Range of Luminous Intensity

Bin Code	Min	Max	Unit	Condition
26	35.0	40.5	mcd	IF=20mA
27	40.5	46.5		
28	46.5	53.5		
29	53.5	61.5		
30	61.5	70.7		

Bin Range of Forward Voltage

Groups	Bin Code	Min	Max	Unit	Condition
B	0	1.75	1.95	V	IF=20mA
	1	1.95	2.15		
	2	2.15	2.35		

Notes: Tolerance of Luminous Intensity $\pm 10\%$

Tolerance of Dominant wavelength $\pm 1\text{nm}$

Tolerance of Forward Voltage $\pm 0.1\text{V}$

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