

LST3528WY – 3528 White Top SMD LED



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES



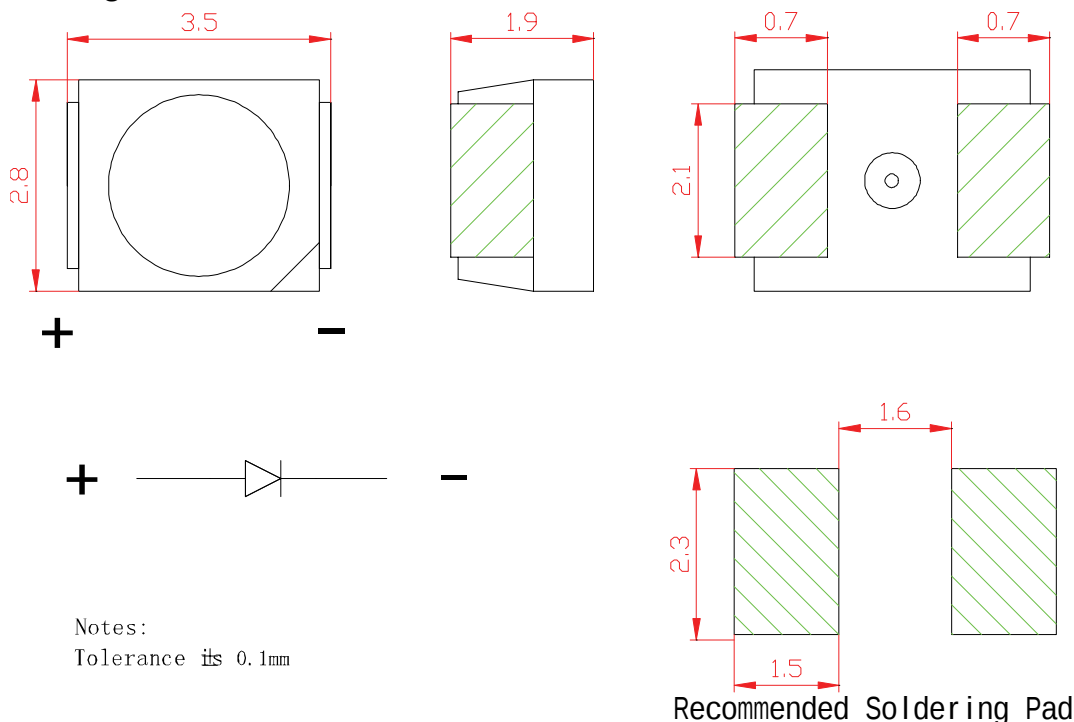
Features:

Extremely wide viewing angle
Suitable for all SMT assembly and solder process
Available on tape and reel
Moisture sensitivity level: Level 4
Package: 1000pcs/reel
RoHS compliant

Available options:

Optical indicator
Indoor display
Interior automotive lighting
Backlight for LCD, switch and Symbol,
display Light pipe application
General use

Package Dimensions:



Notes:

1. All dimension units are millimeters.
2. All dimension tolerance is ± 0.15 mm unless otherwise noted.

Selection Guide

Part No.	Dice	Lens Type	Luminous Intensity (mcd)@60mA		Luminous Flux(lm)@150mA		Viewing Angle
			Min.	Max.	Min	Typ	2θ1/2
LST3528WY	WHITE (InGaN)	Yellow Diffused	6000	8000	18	25	120°

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. The above luminous intensity measurement allowance tolerance $\pm 10\%$.

ABSOLUTE MAXIMUM RATING (Ta=25)

Item	Symbol	Value	Unit
Peak Forward Current	IFp	150	mA
Reverse Voltage	VR	5.0	V
Continuous Forward Current	IF	60	mA
Recommend Operating Current	IF	55	mA
Operating Temperature	Topr	-40 to 85	
Storage Temperature	Tstg	-40 to 100	
Lead Soldering Temperature	Tsol	260 For 3 Seconds	

CHARACTERISTICS (Ta=25)

Parameter	Condition	Symbol	Min	Typ	Max	Units
Power Dissipation	IF=60mA	Pd	-	200	-	mw
Correlated Color Temperature	IF=60mA	CCT	6000	/	7000	K
Forward Voltage	IF=60mA	VF	2.8	3.1	3.8	v
Reverse Current	VR=5V	IR	/	/	10	μA
Chromaticity Coordinates	IF=60mA	X	/	0.31	/	
	IF=60mA	Y	/	0.327	/	
Luminous Flux	IF=60mA	φv	18	20	25	LM
Luminous Intensity	IF=60mA	IV	6000	/	8000	mcd
Color Rendering Index	IF =60mA	CRI	/	70	/	Ra
Full Viewing Angle	IF=60mA	2θ1/2	/	120	/	deg

Typical optical characteristics curves:

Fig.1 正向电流 Vs. 正向电压

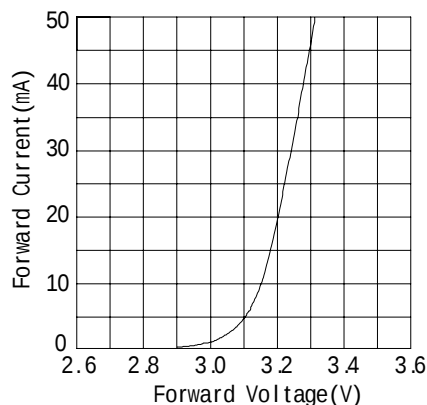


Fig.2 相对亮度 Vs. 正向电流

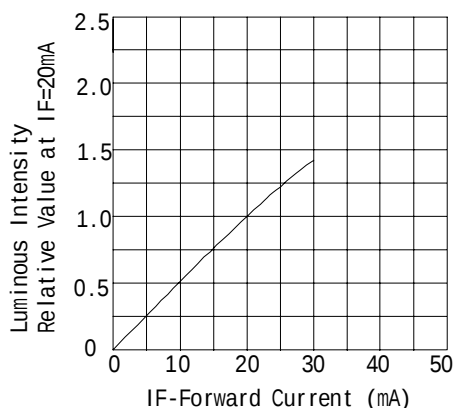


Fig.3 正向电流 Vs. 环境温度

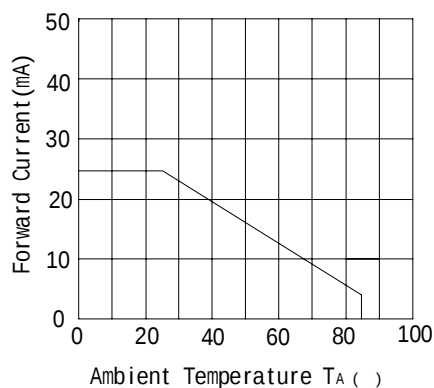
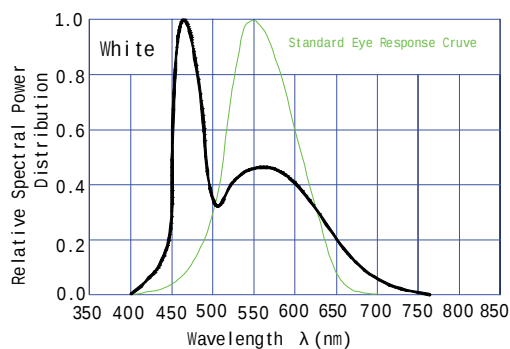
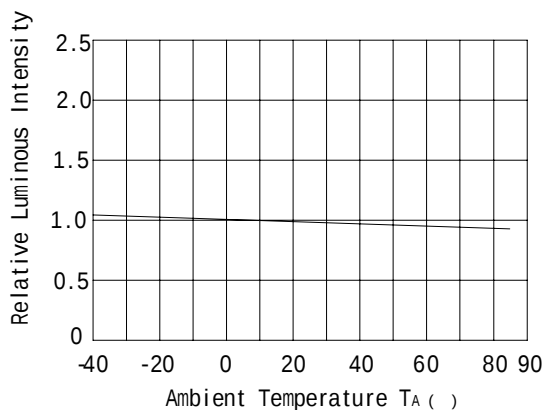


Fig.4 相对亮度 Vs. 环境温度



SPATIAL DISTRIBUTION

