

## SMD SILICON PHOTO DIODES

BL-LS3528A0S1PD

### Features:

- 3.5mmx2.8mm SMD, 1.9mm THICKNESS PLCC2 package, SILICON PHOTO DIODES
- Choice of various viewing angles.
- Diffused and Water clear lens are available.
- Fast response time.
- High photo sensitivity.
- Small junction capacitance.
- The epoxy package itself is an IR filter, spectrally matched to GaAs or GaAlAs IR emitter.
- PACKAGE: 2KPCS/REEL.
- RoHs Compliance



### Applications:

- High speed photo detector
- Camera
- Infrared remote controller for TVs VCR, audio equipment, air conditioner, etc.

### Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit
Power Dissipation	$P_d$	160	mW
Reverse Voltage	$V_R$	35	V
Operation Temperature	$T_{OPR}$	-40 to +100	°C
Storage Temperature	$T_{STG}$	-40 to +100	°C
Lead Soldering Temperature	TSOL	Max.260±5°C for 3 sec Max. (1.6mm from the base of the epoxy bulb)	°C

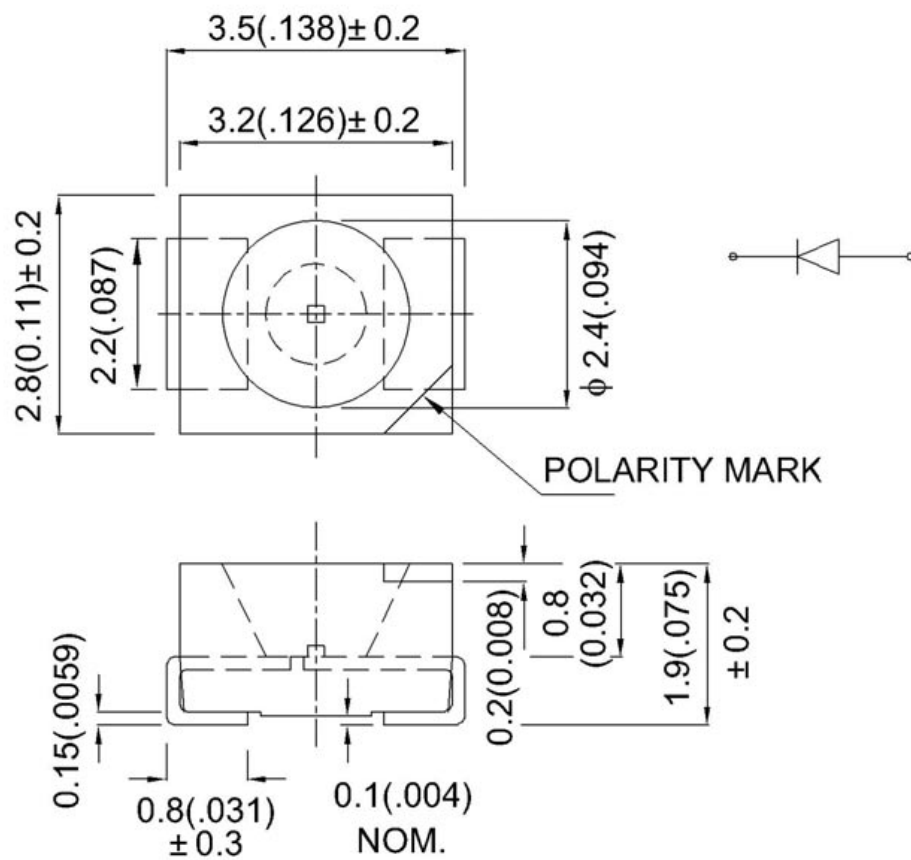
### Electronic Optical Characteristics at Ta=25°C

Items	Symbol	Min.	Typ.	Max.	Unit	Condition
Wavelength of Peak Sensitivity	$\lambda_P$	-	900	-	nm	-
Open Circuit Voltage	$V_{OC}$	-	0.40	-	V	H=5mW/cm <sup>2</sup>
Short Circuit Current	$I_{SC}$	-	2	-	uA	$\lambda_P=900nm$
Reverse Light Current	$I_L$	-	3.5	-	uA	H=5mW/cm <sup>2</sup> $\lambda_P=900nm$ $V_R=5V$
Reverse Dark Current	ID	-	-	10	nA	H=0mW/cm <sup>2</sup> $V_R=10V$
Reverse Break down Voltage	$V_{BR}$	35	170	-	V	H=0mW/cm <sup>2</sup> $I_R=100uA$
Viewing angle	2θ1/2	-	120	-	Deg	
Rise/Fall Time	Tr/Tf	-	6/6	-	nS	$R_L=1000\Omega$ $V_R=10V$

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■ **Package configuration & Internal circuit diagram**



**Notes:**

1. All dimensions are in millimeters (inches)
2. Tolerance is  $\pm 0.25(0.01)$  unless otherwise noted.
3. Specifications are subject to change without notice.

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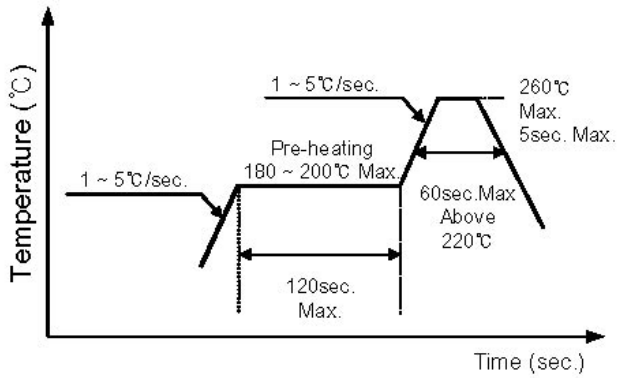
**BL-LS3528A0S1PD**

**■ Tape Specifications**

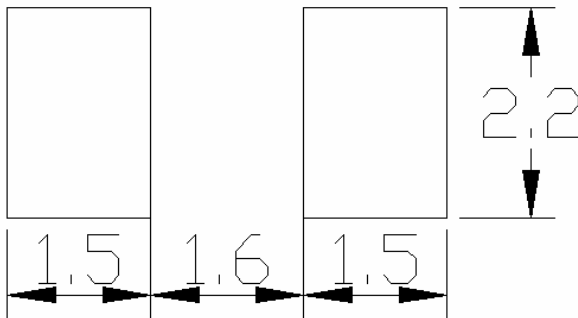
**Smt Reflow Soldering Instructions**

Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process

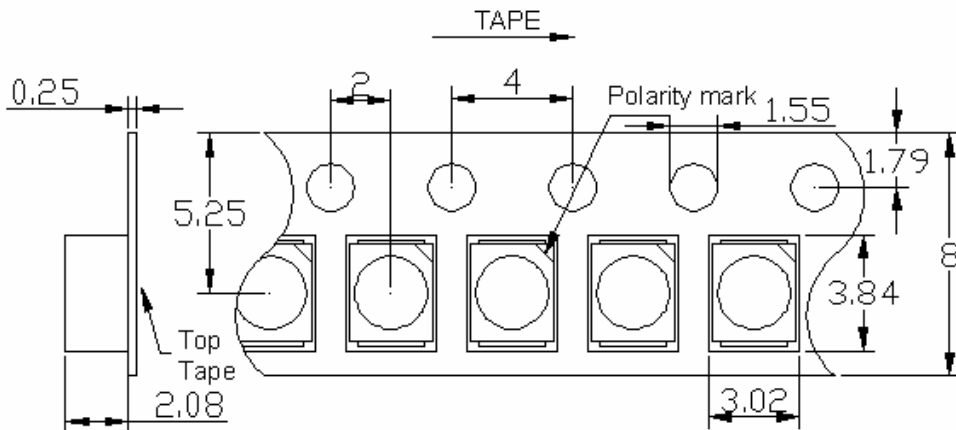
**■ Lead-free Solder**



**Recommended Soldering Pattern (Units:mm)**



**Tape Specifications (Units:mm)**



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## ■ Packing and weighting

