



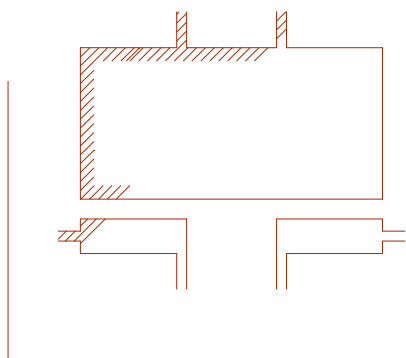
## Features

- ◆ Pb free product—RoHS compliant
- ◆ High Photo Sensitivity
- ◆ Reliable and rugged
- ◆ Long life – solid state reliability
- ◆ Sensitivity angle: 135°

## Application

- ◆ Health Monitoring
- ◆ Photo Detector

## Package Dimension



Part NO.	Chip Material	Lens Color
SL-T3528PDC020-L110	Silicon	Water Clear

### Notes:

1. All dimensions are in millimeters.
2. Tolerance is  $\pm 0.10\text{mm}$  unless otherwise noted.
3. Specifications are subject to change without notice.



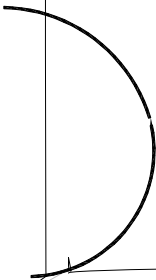
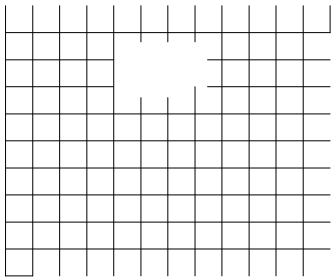
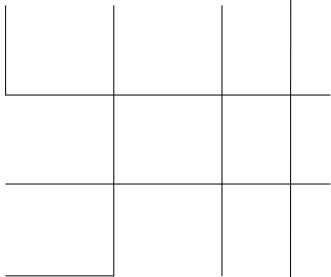
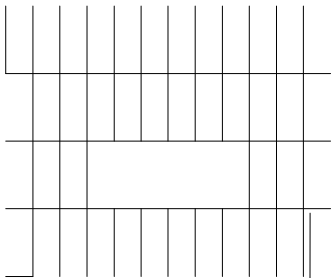
## Electrical Optical Characteristics at Ta=25°C

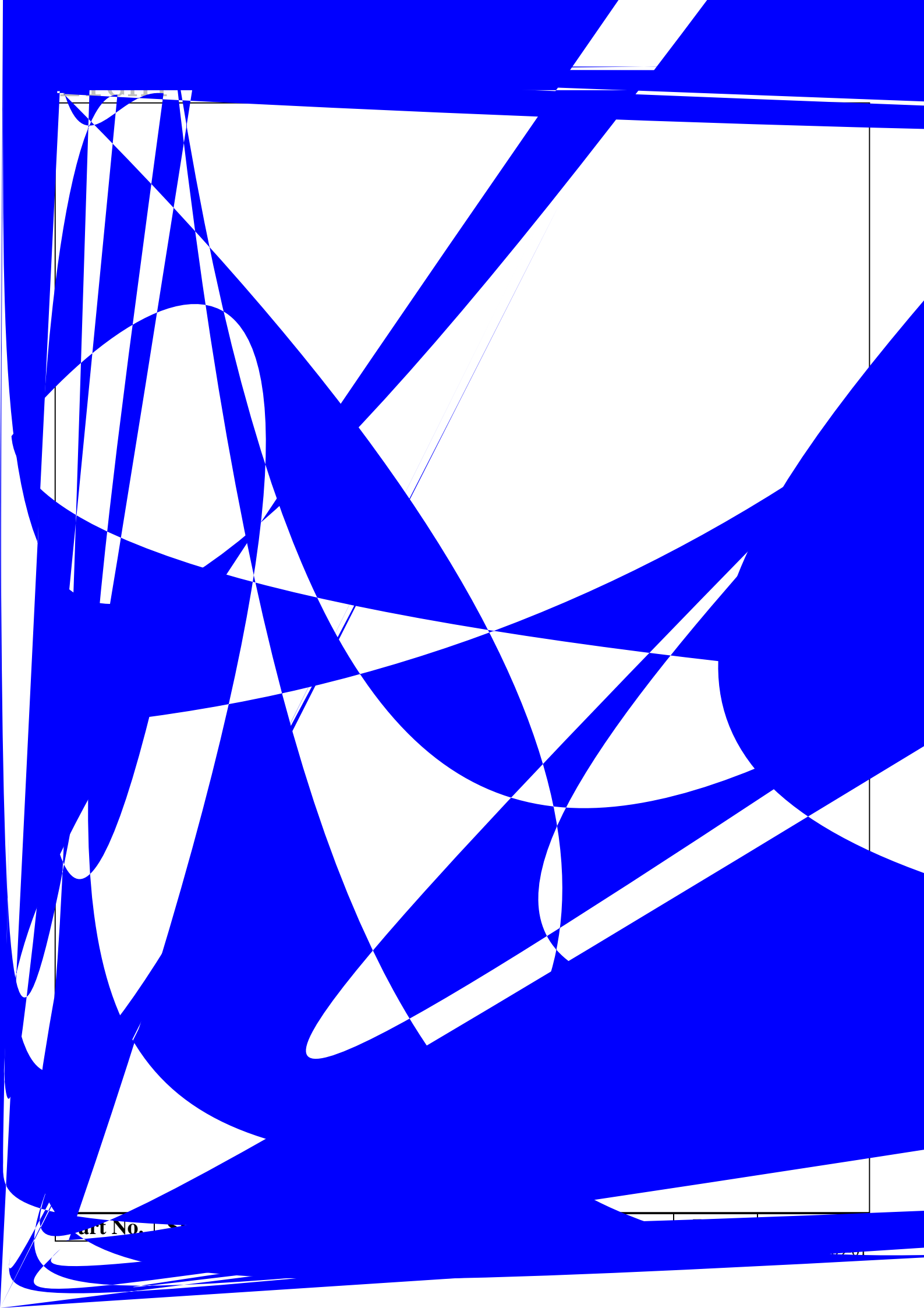
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
Reverse Light Current	$I_L$	---	16.7	---	$\mu A$	$V_R=5V$ $E_e=1mW/cm^2$ $p=940nm$
Reverse Light Current	$I_L$	---	13	---	$\mu A$	$V_R=5V$ $E_e=1mW/cm^2$ $p=660nm$
Reverse Light Current	$I_L$	---	10	---	$\mu A$	$V_R=5V$ $E_e=1mW/cm^2$ $d=525nm$
Reverse Dark Current	$I_D$	---	---	10	nA	$V_R=10V$ $E_e=0mW/cm^2$
Reverse Voltage	$V_{(R)}$	30	---	---	V	$I_R=100\mu A$
Forward Voltage	$V_F$	---	---	1.3	V	$I_F=10mA$
Viewing Angle(X)	$2_{1/2}$	---	135	---	Deg.	(Note 1)
Viewing Angle(Y)	$2_{1/2}$	---	135	---	Deg.	
Rise Time/Fall Time	tr/tf	---	30	---	ns	$V_R=10V$ $RL=1k$
Total Capacitance	$C_T$	---	12	---	pF	$V_R=5V$ $E_e=0mW/cm^2$ $f=1.0MHz$

### Note:

- $1_{1/2}$  is the off-axis angle at which the Reverse Light Current is half the axial Reverse Light Current.
- The  $I_L$  guarantee should be added  $\pm 15\%$  tolerance.

Typical Electrical / Optical Characteristics Curves  
(25°C Ambient Temperature Unless Otherwise Noted)









Part No. 1-2

## Label Explanation

LIGHT Universal Label

<b>LIGHT</b>		
Light Electronics CO., LTD.		
MODEL NAME:		 LOT NO.:
QUANTITY:		
BIN		
PACKING DATE:		
REMARKS:		

Customer Defined Label

<b>LIGHT</b>		
Light Electronics CO., LTD.		
MODEL NAME:		 LOT NO.:
QUANTITY:		
BIN		
PACKING DATE:		
CUSTOMER P/N		

## Reel Dimensions

