



SL-T3528PTB120-L140

PHOTO TRANSISTOR **DATA SHEET**

 SPEC. NO.
 :
 SZ20050801

 DATE
 :
 2020/05/08

 REV.
 :
 A/3

Approved By: Checked By: Prepared By:

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Features

Pb free product—RoHS compliant

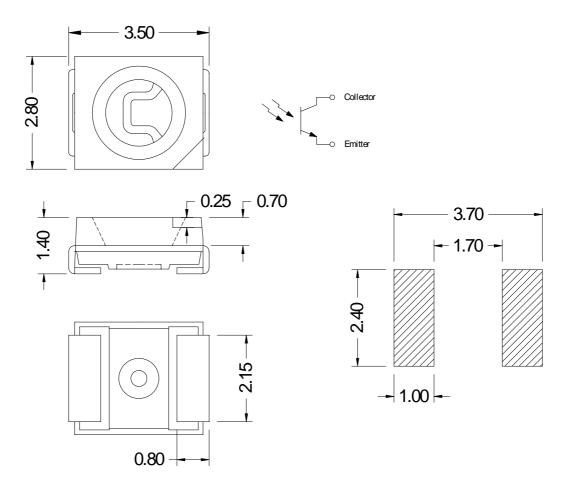
High Photo Sensitivity

Reliable and rugged

Long life – solid state reliability

Sensitivity angle: 120°

Package Dimension



Part NO.	Chip Material	Lens Color
SL-T3528PTB120-L140	Silicon	Deep Blue

Notes:

- 1. All dimensions are in millimeters.
- 2. Tolerance is ± 0.10 mm unless otherwise noted.
- 3. Specifications are subject to change without notice.



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Absolute Maximum Ratings at Ta=25

Parameter	MAX.	Unit	
Power Dissipation	100	mW	
Collector-Emitter Voltage	30	V	
Emitter-Collector Voltage	5	V	
Moisture Sensitivity Level*1	5a		
Operating Temperature	-40 to +85		
Storage Temperature	-40 to + 100		
IR Reflow Temperature*3	260 for 10 Seconds MAX.		

1. Storage

- (1). Storage requirements before vacuum bag opened: Temperature<30 , Humidity<65%RH;
- (2). Check air leakage and vacuum bag damage before opened. If there is any issue found, check the humidity indicator card immediately after bag opened:
 - a. If color changes on "10% circle" of the humidity indicator card only and not the circles of 20% and above, components can be used without additional handling;
 - b. If color changes on both 10% and 20% circles but not the circles of 30% and above, components must be dehumidified according to the conditions of bullet (5);
 - c. If color changes on 10%, 20%, and 30% circle or above, the product should be returned to the supplier for high temperature dehumidification;
- (3). After bag opened, manual soldering or reflow process must follow the following requirements:
 - a. Complete soldering / reflow within 24 hours;
 - b. Requirements of working environment: Temperature<30 , Humidity<60%RH;
- (4). If the working condition is outside (3)a or (3)b requirement, the components must be dehumidified according to the conditions of bullet (5);
- (5). Low temperature dehumidification: temperature 60 ± 5 24 hours;
- (6). Shelf life: 30 days. If it's over 30 days from the production date on the package label, the components must be dehumidified according to the condition of bullet (5). If customer is unable to dehumidify, return components to LIGHT for dehumidification.

2. Cleaning:

Use alcohol-based cleaning solvents such as isopropyl alcohol to clean the LED if necessary.

3. IR Reflow Temperature:

It is the Plate Temperature.

4. Caution in ESD:

Static Electricity and surge damages the LED. It is recommend to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

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Electrical Optical Characteristics at Ta=25

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Collector-Emitter Breakdown Voltage	$\mathrm{BV}_{\mathrm{CEO}}$	30			V	I _C =0.1mA Ee=0mW/cm2
Emitter-Collector Breakdown Voltage	BV_{ECO}	5			V	$I_{E}=0.1 \text{mA}$ $Ee=0 \text{mW/cm2}$
Collector-Emitter Saturation Voltage	$V_{\text{CE(SAT)}}$			0.4	V	I_{C} =0.1mA Ee=1mW/cm2
Rise Time	Tr		15		μs	$V_{CE}=5V$
Fall Time	Tf		15		μs	R_L $I_C=1$ mA
Collector Dark Current	I_{CEO}			100	nA	V _{CE} =10V Ee=0mW/cm2
On State Collector Current	$I_{C(ON)}$	1.5	2.2		mA	V _{CE} =5V Ee=1mW/cm2

Note:

 $_{1/2}$ is the off-axis angle at which the $I_{C(ON)}$ is half the axial $I_{C(ON)}$.

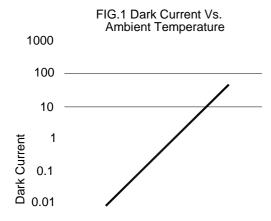
2. The $I_{C(ON)}$ guarantee should be added $\pm 15\%$ tolerance.



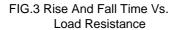


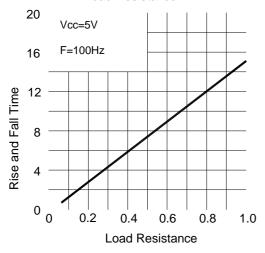
Typical Electrical / Optical Characteristics Curves

(25 Ambient Temperature Unless Otherwise Noted)



Ambient Temperature





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RENARKS: _

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Light Universal Label Customer Defined Label Light Electronics (0), LTD. MDDEL NAME: BIN PACKING DATE:

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