



SL-T3528PTB120-L140 PHOTO TRANSISTOR **DATA SHEET**

 SPEC. NO.
 :
 SZ20050801

 DATE
 :
 2020/05/08

 REV.
 :
 A/3

Approved By:

Checked By:

Prepared By:

Part No. SL-T3528PTB120-L140

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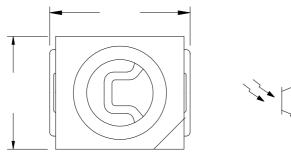
LIGHT ELECTRONICS CO., LTD.

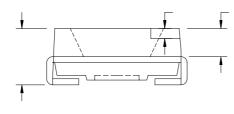
LIGHT

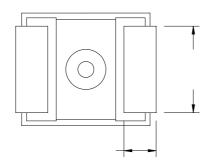
Features

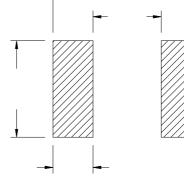
Pb free product—RoHS compliant High Photo Sensitivity Reliable and rugged Long life – solid state reliability Sensitivity angle: 120°

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.

Part No. SL-T3528PTB120-L140





LIGHT ELECTRONICS CO., LTD.



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	BV _{CEO}	30			V	I _C =0.1mA Ee=0mW/cm2
Emitter-Collector Breakdown Voltage	BV _{ECO}	5			V	I _E =0.1mA Ee=0mW/cm2
Collector-Emitter Saturation Voltage	V _{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 =1K I _C =1mA
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 p=940nm

Note:

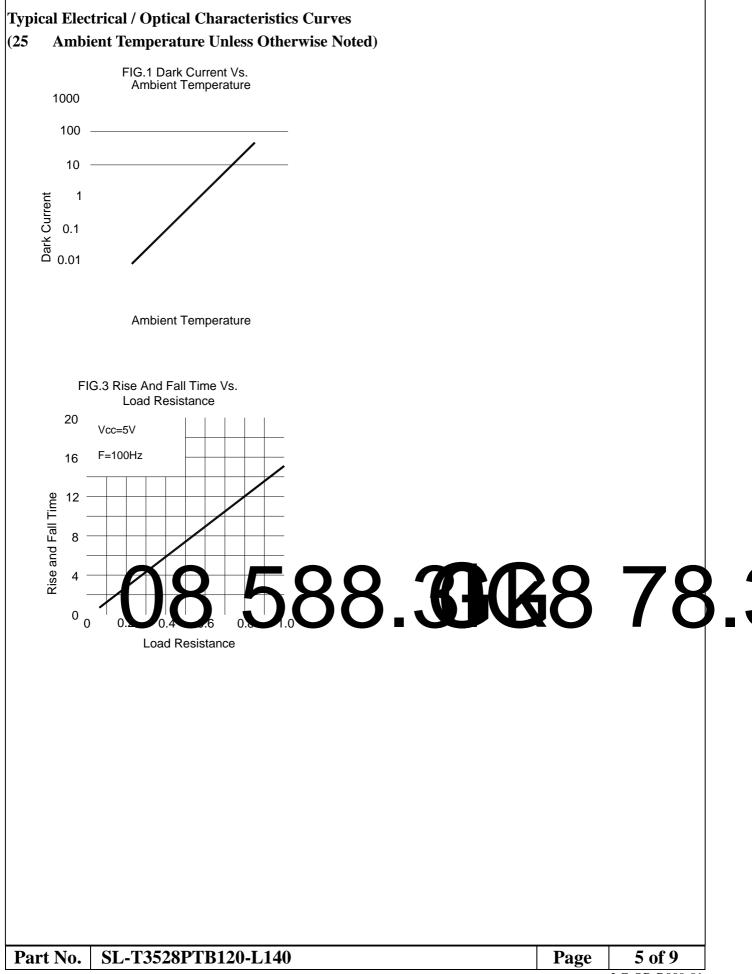
- 1. 2 $_{1/2}$ is the off-axis angle at which the $I_{C(ON)}$ is half the axial $I_{C(ON)}$.
- 2. The $I_{C(ON)}$ guarantee should be added $\pm 15\%$ tolerance.

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LIGHT

LIGHT ELECTRONICS CO., LTD.





LIGHT LIGHT ELECTRONS S CO., LTD.



Label Explanation

LIGHT Universal Label		Customer Defined Label	
LIGHT Light Electronics CO., LTD.	RoHS	RoHS	
NODEL NAVIE:			
QJANTI TY:			
BI N:			
PACKI NG DATE:			
RENARKS:			

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