



SL-T2016IRPTB009-L75 DATA SHEET

 SPEC. NO.
 :
 SZ21073101

 DATE
 :
 2021/07/31

 REV.
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Approved By:

Checked By:

Prepared By:

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Absolute Maximum Ratings at Ta=25℃

Parameter	Rating	Unit			
Input (Emitter)					
Pulse Forward Current ^{*3}	20	mA			
Continuous Forward Current	8.5	mA			
Reverse Voltage	2	V			
Output (Detector)					
Collector Emitter Breakdown Voltage	85	V			
Emitter Collector Breakdown Voltage	8.2	V			
Collector Current	1.7	mA			
Coupled					
Total Power Dissipation	25	mW			
Operating Temperature	-25 to +3	-25 to + 85			
Storage Temperature	-25 to +3	85			
Reflow Soldering Temperature	260 MAX. for 10 S	Seconds MAX.			

Notes:

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 72 hours;
 - b. Requirements of working environment: Temperature<30 , Humidity<60%RH;
- (4). If the working condition is outside (3)a requirement, the components must be dehumidified according to the conditions of bullet (5);
- (5). Low temperature dehumidification: temperature 60 ± 5 , at least 24 hours;
- (6). Shelf life: 180 days. If it's over 180 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. 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.

3. Pulse Forward Current:

Pulse Width 0.1ms and duty 10%.

Typical Product Characteristics (Ta=25)-Emitter

Characteristics	Symbol	Min.	Тур.	Max.	Unit	Test condition
Forward Voltage	$V_{\rm F}$	-	2.0	2.5	V	I _F =7mA
Reverse Current	I _R					_R =2V
Center Wavelength	Р	-	940	-	nm	I _F =7mA
Spectrum Width of Half Value	D _P	-	5	-	nm	I _F =7mA

Note: Tolerance of Forward Voltage: ±0.1V.

Typical Product Characteristics (Ta=25)-Detector

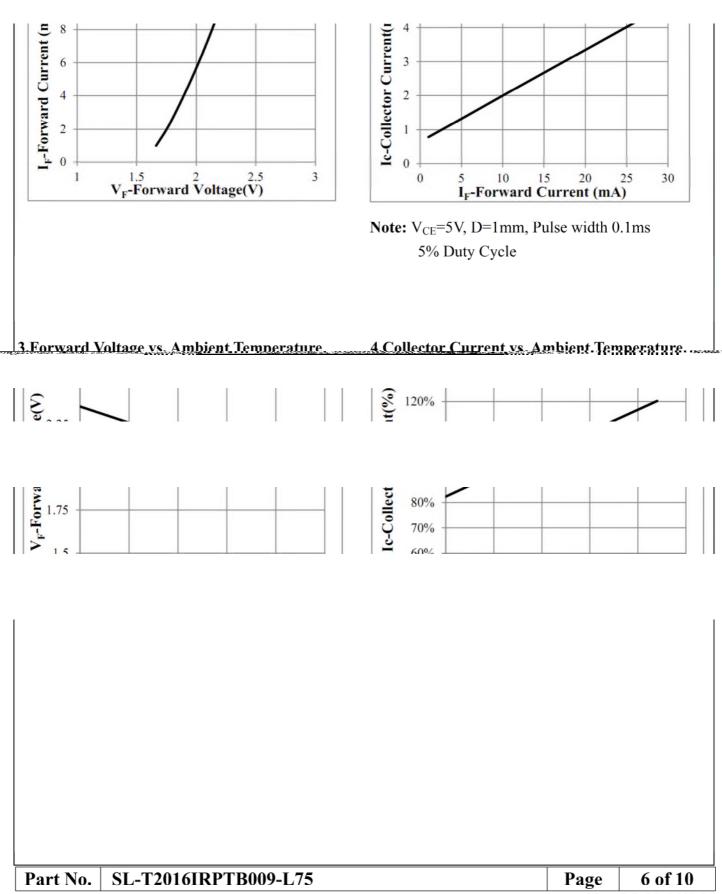
Characteristics	Symbol	Min.	Тур.	Max.	Unit	Test condition
Collector Emitter Breakdown Voltage	BV _{CEO}	85	-	-	V	$I_C = 100uA$ $L^* = 0$
Emitter Collector Breakdown Voltage	BV _{ECO}	8.2	-	-	V	I _E = 10uA L* =0
Collector Emitter Dark Current	I _{CEO}	-	2	30	nA	V _{CE} =20V, L* =0 Fig. 2

Note: $L^* = 0$ (zero light condition)





Optical Characteristics (Ta=25℃)

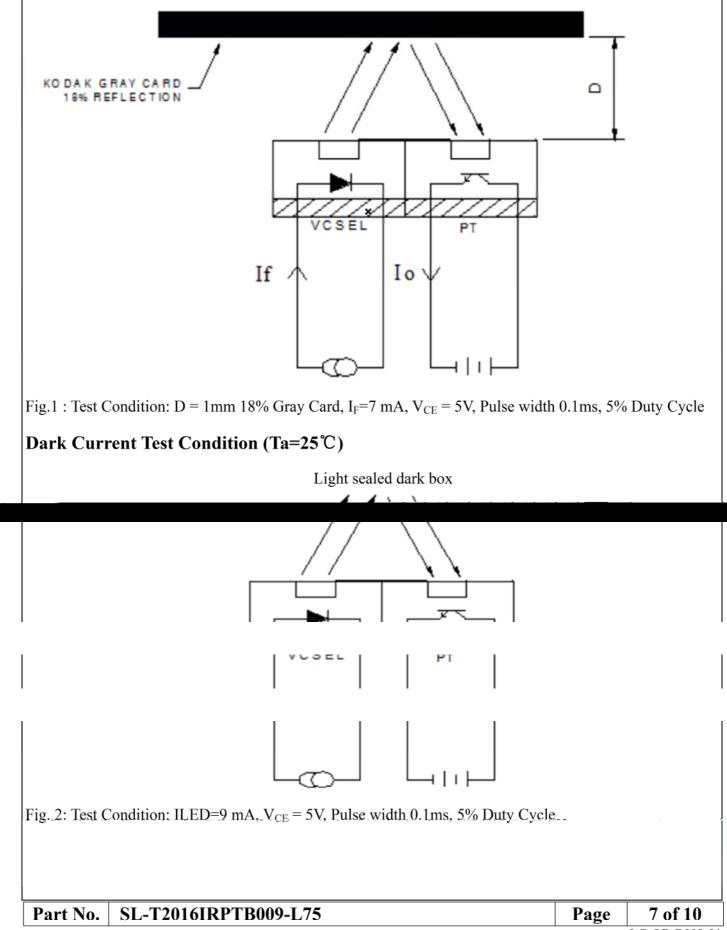




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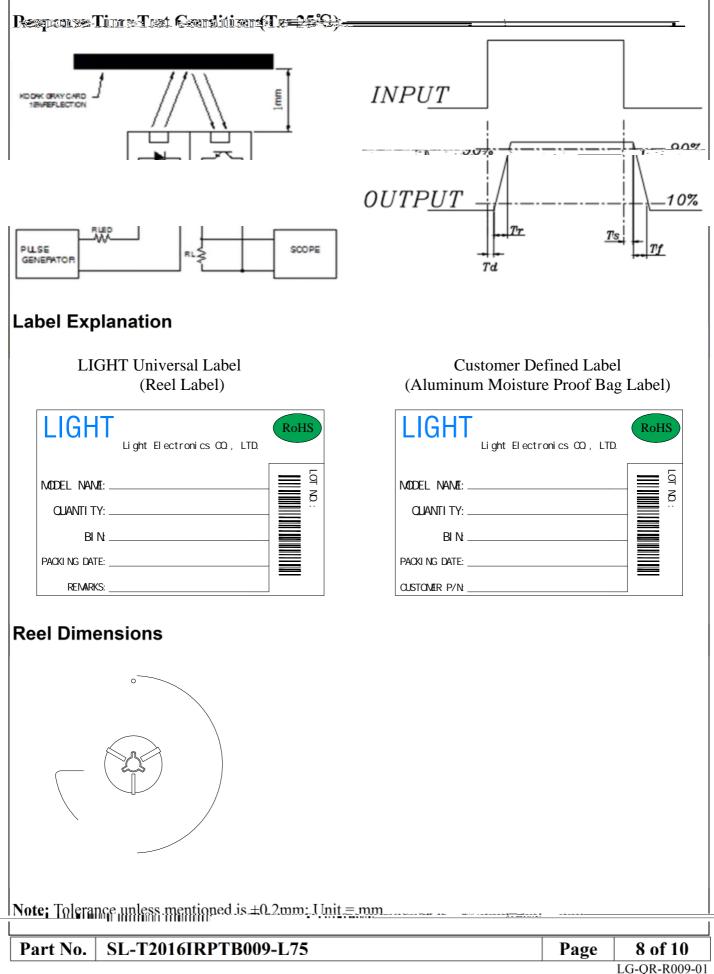




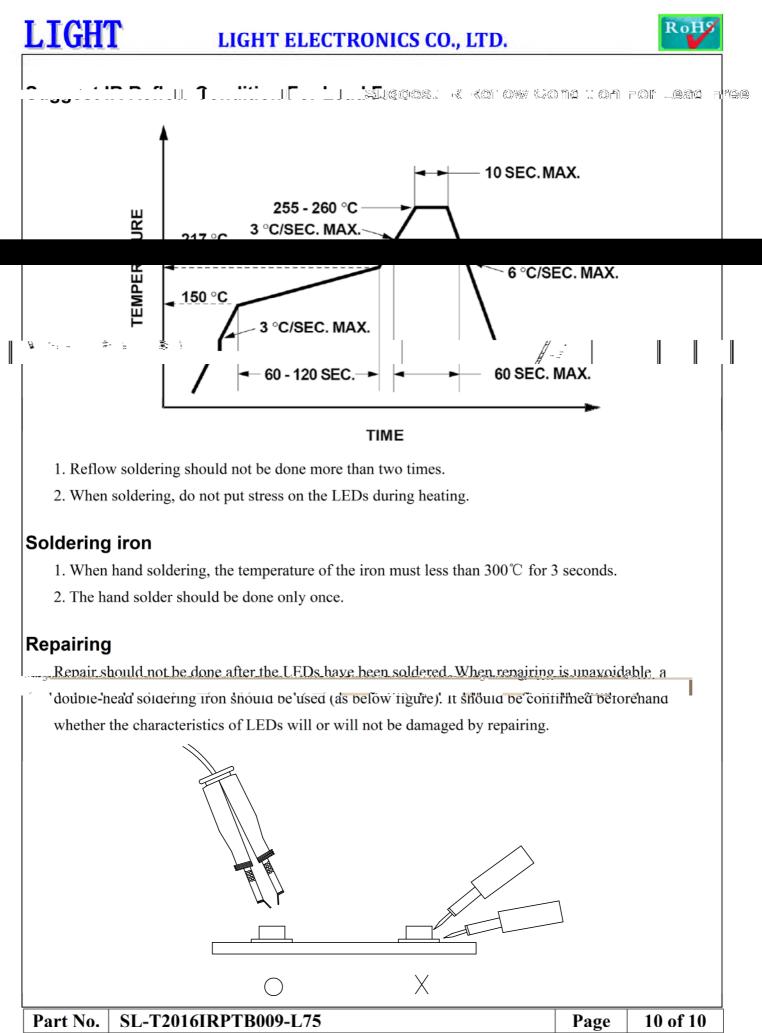


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