

SPECIFICATION FOR APPROVAL

Cı	Customer Name :										
Cı	ustomer	Item:									
Pa	Part No.: PD-S554DF-LH90										
Pr	Product Description:										
Draw Date:											
Customer Item: Part No.: PD-S554DF-LH90 Product Description: Draw Date: 1.Accessory: Samples Samples Data 2.Customer's Proposal: Agree Disagree Reason: Rev. Draw by: Checked by: Approved by: 1.2.1 Steven Chen Gray Huang Caren											
	Rev.	Draw by :	Checked by:	Approved by:							
	1.2.1	Steven Chen	Gray Huang	Caren							
	Customer Approve										

PD-S554DF-LH90

第1页共5页



■ Features

- Especially suitable for applications of 940nm
- Short switching time



■ Applications

- Optical module
- IR remote controls of various equipment

■ Absolute Maximum Ratings

(Ta= 25°C)

Parameter	Symbol	Ratings	Unit
Reverse Breakdown Voltage	BV_R	30	V
Junction Temperature	Тл	150	${\mathbb C}$
Operating Temperature	T_{OPR}	-25 ~ 80	${\mathbb C}$
Storage Temperature	T_{STG}	-30 ~ 90	$^{\circ}$

■ Electro-Optical Characteristics

(Ta=25℃)

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Open Circuit Voltage	Voc	Ev=1,000lux *1	0.3	0.32	-	V
Short Circuit Current	Isc	Ev=1,000lux *1	1	50	-	μ A
Dark Current	I_{D}	$V_R=10V$	1-1	1	10	nA
Capacitance	Ct	V=3V, f=1MHz	_	30	50	pF
Spectrum Sensitivity	λ		450	.—.	1100	nm
Peak Sensing Wavelength	λP		1	905	-	nm

^{*1:} Parallel light of 1,000lux illumination is applied by a tungsten lamp of 2856K



■ Typical electrical / Optical characteristic curves (Ta=25°C)

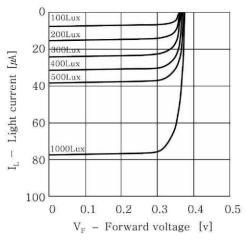


Fig.1 Light current vs. Forward voltage

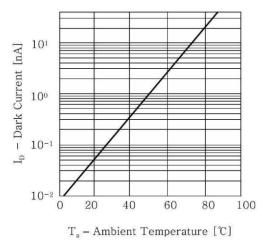


Fig.3 Dark current vs. Ambient temperature

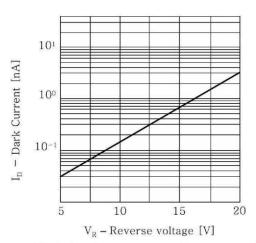


Fig.5 Dark current vs. Reverse voltage

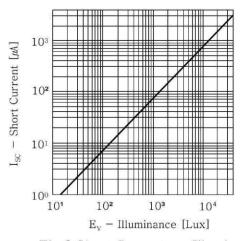


Fig.2 Short Current vs. Illuminance

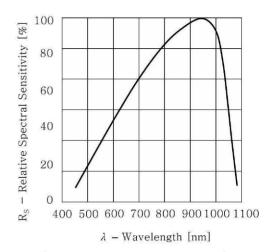
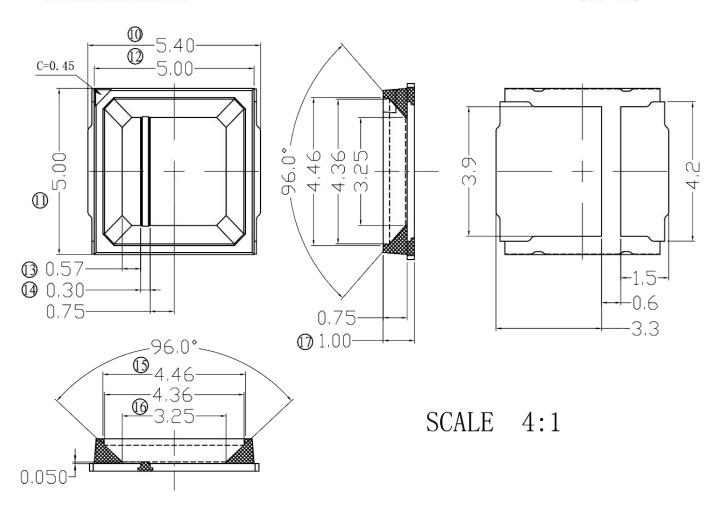


Fig.4 Relative spectral sensitivity vs. Wavelength





(Unit: mm)



Note:

- 1, Dimensions are in millimeters.
- 2. Tolerances unless mentioned are ± 0.1 mm.

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Storage and Soldering Condition

- 1. Do not open moisture proofs bag before the products are ready to use
- 2. Before opening the package, the LEDs should be kept at 30°C or less and 90% RH or les
- 3. The PDs should be used within a year.
- 4. After opening the package, the PDs should be kept at 30°C or less and 70% RH or less.
- 5. The PDs should be used within 168 hours (7 days) after opening the package.
- 6. When soldering, do not put stress on the PDs during heating.
- 7. If the moisture adsorbent material (silica gel) has fabled away or the PDs have exceeded the storage time, baking treatment should be performed using the following conditions. Baking treatment: 60±5°C for 24 hours
- 8. After soldering, do not warp the circuit board
- 9. Each terminal is to go to the tip of soldering iron temperature less than 260°C for 5 seconds within once in less than the soldering iron capacity 25W. Leave tow seconds and more intervals, and do soldering of each terminal. Be careful because the damage of the product is often started at the time of the hand solder.