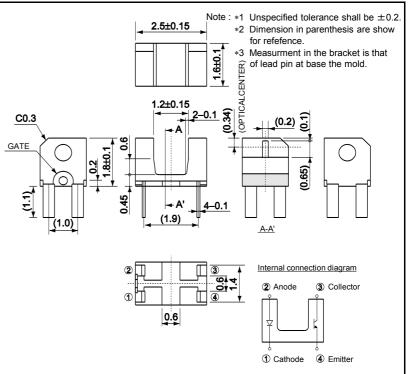


Datasheet

Applications

- DSCs
- DVCs
- Mobile phones

•Dimensions (Unit : mm)



Features

- 1) Ultra-compact packages
- 2) Gap1.2mm

•Absolute maximum ratings (Ta = 25°C)

F	Parameter	Symbol	Value	Unit
Input (Infrared light emitting diode)	Forward current	I _F	30	mA
	Reverse voltage	V _R	5	V
	Power dissipation	P _D	80	mW
Output (Phototransistor)	Collector-emitter voltage	V _{CEO}	30	V
	Emitter-collector voltage	V _{ECO}	4.5	V
	Collector current	I _C	30	mA
	Collector dissipation	P _C	80	mW
Operating temperatur	e	T _{opr}	–25 to +85	°C
Storage temperature		T _{stg}	-30 to +85	°C

•Electrical and optical characteristics (Ta = 25°C)

1) Input characteristics

Parameter	Symbol	Conditions		Values		Unit
Faranielei	Symbol	Conditions	Min.	Тур.	Max.	
Forward voltage	V _F	I _F =5mA	1.2	1.35	1.5	V
Reverse current	I _R	V _R =5V	-	-	10	μA
Peak light emitting wavelength	λ_{p}	I _F =5mA	-	850	-	nm

* Non-coherent Infrared light emitting diode used.

2) Output characteristics

Parameter	Symbol	Conditions		Values		Unit	
Parameter	Symbol	Conditions	Min. T		Max.	Onic	
Dark current	I _{CED}	V _{CE} =10V	-	-	0.1	μA	
Peak sensitivity wavelength	λ_p		-	800	-	nm	

* This product is not designed to be protected against electromagnetic wave.

3) Transfer characteristics

Parameter		Symbol	Conditions	Values			Lipit
		Symbol Conditions		Min.	Тур.	Max.	Unit
Collector current		I _C 1	V _{CE} =5V I _F =20mA	5.0	-	25.0	mA
		I _C 2	V _{CE} =5V I _F =5mA	1.0	-	5.0	mA
Collector-emitter saturation voltage		V _{CE(sat)}	I _F =20mA I _C =0.1mA	-	-	0.4	V
Response time	Rise time	tr	V _{CC} =5V, I _F =20mA	-	10	-	19
	Fall time	tf	R _L =100Ω	-	10	-	μS

•Electrical and optical characteristic curves

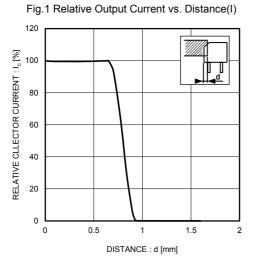


Fig.3 Forward Current vs. Foward Voltage

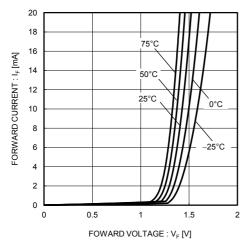
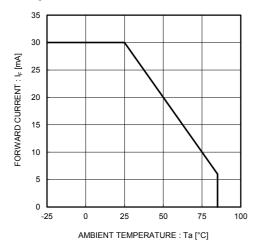


Fig.5 Forward Current Fall Off



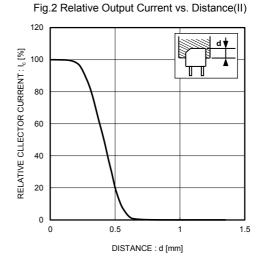


Fig.4 Relative Output vs. Ambient Temperature

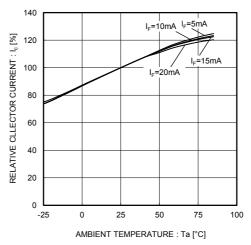
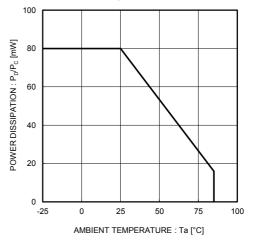


Fig.6 Power Dissipation/Collector Power Dissipation vs. Ambient Temperature



•Electrical and optical characteristic curves

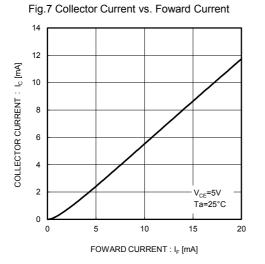


Fig.9 Output Characteristics

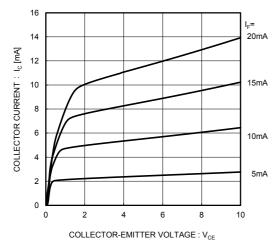
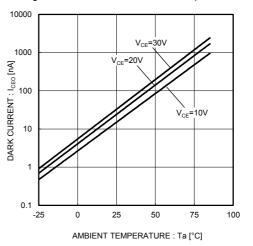


Fig.8 Dark Current vs. Ambient Temperature



	Notes
1)	The information contained herein is subject to change without notice.
2)	Before you use our Products, please contact our sales representative and verify the latest specifica- tions :
3)	Although ROHM is continuously working to improve product reliability and quality, semicon- ductors can break down and malfunction due to various factors. Therefore, in order to prevent personal injury or fire arising from failure, please take safety measures such as complying with the derating characteristics, implementing redundant and fire prevention designs, and utilizing backups and fail-safe procedures. ROHM shall have no responsibility for any damages arising out of the use of our Poducts beyond the rating specified by ROHM.
4)	Examples of application circuits, circuit constants and any other information contained herein are provided only to illustrate the standard usage and operations of the Products. The peripheral conditions must be taken into account when designing circuits for mass production.
5)	The technical information specified herein is intended only to show the typical functions of and examples of application circuits for the Products. ROHM does not grant you, explicitly or implicitly, any license to use or exercise intellectual property or other rights held by ROHM or any other parties. ROHM shall have no responsibility whatsoever for any dispute arising out of the use of such technical information.
6)	The Products are intended for use in general electronic equipment (i.e. AV/OA devices, communi- cation, consumer systems, gaming/entertainment sets) as well as the applications indicated in this document.
7)	The Products specified in this document are not designed to be radiation tolerant.
8)	For use of our Products in applications requiring a high degree of reliability (as exemplified below), please contact and consult with a ROHM representative : transportation equipment (i.e. cars, ships, trains), primary communication equipment, traffic lights, fire/crime prevention, safety equipment, medical systems, servers, solar cells, and power transmission systems.
9)	Do not use our Products in applications requiring extremely high reliability, such as aerospace equipment, nuclear power control systems, and submarine repeaters.
10)	ROHM shall have no responsibility for any damages or injury arising from non-compliance with the recommended usage conditions and specifications contained herein.
11)	ROHM has used reasonable care to ensur the accuracy of the information contained in this document. However, ROHM does not warrants that such information is error-free, and ROHM shall have no responsibility for any damages arising from any inaccuracy or misprint of such information.
12)	Please use the Products in accordance with any applicable environmental laws and regulations, such as the RoHS Directive. For more details, including RoHS compatibility, please contact a ROHM sales office. ROHM shall have no responsibility for any damages or losses resulting non-compliance with any applicable laws or regulations.
13)	When providing our Products and technologies contained in this document to other countries, you must abide by the procedures and provisions stipulated in all applicable export laws and regulations, including without limitation the US Export Administration Regulations and the Foreign Exchange and Foreign Trade Act.
14)	This document, in part or in whole, may not be reprinted or reproduced without prior consent of ROHM.



Thank you for your accessing to ROHM product informations. More detail product informations and catalogs are available, please contact us.

ROHM Customer Support System

http://www.rohm.com/contact/

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Optical Switches, Transmissive, Phototransistor Output category:

Click to view products by ROHM manufacturer:

Other Similar products are found below :

LTH-301-07 LTH-301-23 LTH-306-02 LTH-306-64 E3C-X2C E3S-LS20B4S1 E3SX2CE4 EESPW301 EE-SX872R EE-SX950P-W 1M EE-SX952-R 3M RPI-0125B RPI-2501 RPI-576A KRA021 LTH-306-04M HOA0865-100 HOA1961-055 RPI-124 E3F-3C4 EE-SPX305-W2A 2M LTH-306-01 EE-SX670B EE-SX771R 5M EESX677C1JR01M EESX971PC1 HOA1883-501 EE-SX970P-C1 EE-SX976-C1 RPI-125 RPI-243 EE-SX1061 EE-SX675P-WR 1M OPB806 OPB853A3 GP1S396HCP0F EE-SX1128 OPB857Z EE-SV3-B EE-SJ3-D RPI-0226 ITR8307 EE-SX671P-WR 1M EE-SX675P EE-SX951P-W 1M EE-SX954-W 1M EE-SX672R EE-SX954P-W 1M EE-SX952-R 1M EE-SX953-W 1M