RPI-1133

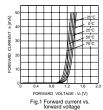
Photointerrupter, Small type

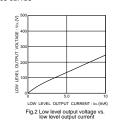


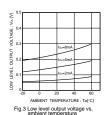
■ Electrical and optical characteristics (Ta=25°C)

Parameter			Symbol	Min.	Тур.	Max.	Unit	Conditions
Input charac- teristics	Forward voltage		VF	-	1.1	1.3	٧	I _F =10mA
n char teris	Re	verse current	l _R	-	-	10	μА	V _R =5V
Output characteristics	Power supply voltage		Vcc	2.0	-	7.0	٧	-
	Output low level voltage		Vol	-	0.08	0.35	٧	Vcc=3V, loL=2mA
	Output high level voltage		Vон	2.8	-	3.0	٧	Vcc=3V, Ir=0mA
	Low level power supply current		Iccı	-	0.35	1.5	mA	Vcc=3V, Ir=5mA
	High level power supply current		Іссн	-	0.35	1.5	mA	Vcc=3V, Ir=0mA
Transfer characteristics	High → Low Threshold input current		IFHL	0.25	-	2.5	mA	Vcc=3V
	Hysteresis		IFLH / IFHL	0.4	0.7	0.9	-	Vcc=3V
	Response time	Low → High Propagation delay time	tрын	-	22	66	μѕ	Vcc=3V, I=-5mA, Rt=100Ω
		High → Low Propagation delay time	t _{PHL}	-	5.5	16		
		Rise time	tr	-	5	15		
		Fall time	tf	-	0.05	0.15		
Infrared light emitter diode	Cut-off frequency		fc	-	1	-	MHz I⊧=50mA	
	Peak light emitting wavelength		λР	-	950	-	nm	Non-coherent Infrared light emitting diode used.
Photo	P.	sponse time	tr	-	5	15		Vcc=3V, Ir=5mA, Rt=100Ω
	response une		tf	-	0.05	0.15	μs	This product is not designed to be protected against electromagnetic wave.

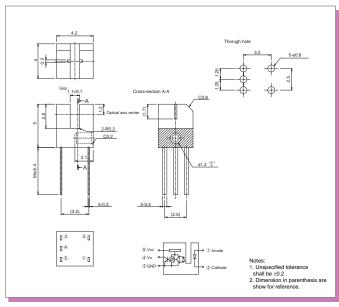
Electrical and optical characteristics curves

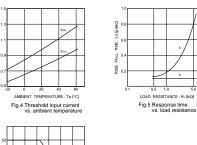


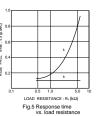


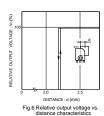


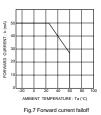
External dimensions (Unit : mm)

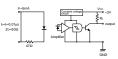














Notes

- No technical content pages of this document may be reproduced in any form or transmitted by any means without prior permission of ROHM CO.,LTD.
- The contents described herein are subject to change without notice. The specifications for the
 product described in this document are for reference only. Upon actual use, therefore, please request
 that specifications to be separately delivered.
- Application circuit diagrams and circuit constants contained herein are shown as examples of standard
 use and operation. Please pay careful attention to the peripheral conditions when designing circuits
 and deciding upon circuit constants in the set.
- Any data, including, but not limited to application circuit diagrams information, described herein are intended only as illustrations of such devices and not as the specifications for such devices. ROHM CO.,LTD. disclaims any warranty that any use of such devices shall be free from infringement of any third party's intellectual property rights or other proprietary rights, and further, assumes no liability of whatsoever nature in the event of any such infringement, or arising from or connected with or related to the use of such devices.
- Upon the sale of any such devices, other than for buyer's right to use such devices itself, resell or
 otherwise dispose of the same, no express or implied right or license to practice or commercially
 exploit any intellectual property rights or other proprietary rights owned or controlled by
- ROHM CO., LTD. is granted to any such buyer.
- Products listed in this document are no antiradiation design.

The products listed in this document are designed to be used with ordinary electronic equipment or devices (such as audio visual equipment, office-automation equipment, communications devices, electrical appliances and electronic toys).

Should you intend to use these products with equipment or devices which require an extremely high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), please be sure to consult with our sales representative in advance.

About Export Control Order in Japan

Products described herein are the objects of controlled goods in Annex 1 (Item 16) of Export Trade Control Order in Japan.

In case of export from Japan, please confirm if it applies to "objective" criteria or an "informed" (by MITI clause) on the basis of "catch all controls for Non-Proliferation of Weapons of Mass Destruction.

ROHM

Appendix1-Rev1.1