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捷多邦，专业PCB打样工厂，24小时

加急出货

## Photointerrupters(Transmissive)

KODENSHI

**SG - 288**

The SG - 288 photointerrupter high – performance standard type, combines high – output GaAs IRED with high sensitive phototransistor.

### FEATURES

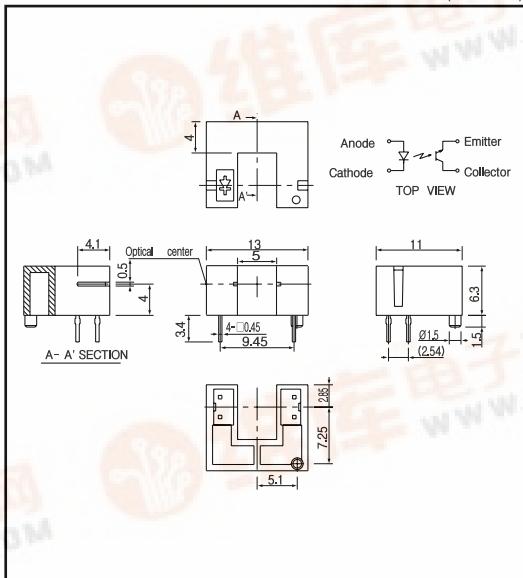
- PWB direct mount type
- GAP : 5.0mm
- With the installation positioning boss
- Horizontal slit

### APPLICATIONS

- Mouses
- Rotary encoders
- Facsimiles

### DIMENSIONS

(Unit : mm)



### MAXIMUM RATINGS

(Ta=25 °C)

Item	Symbol	Rating	Unit
Input	P <sub>D</sub>	100	mW
	I <sub>F</sub>	60	mA
	V <sub>R</sub>	5	V
Output	I <sub>FP</sub>	1	A
	P <sub>C</sub>	100	mW
	I <sub>C</sub>	40	mA
	V <sub>CEO</sub>	30	V
	V <sub>ECC</sub>	5	V
Operating temp. <sup>2</sup>	Topr.	- 20 ~ + 85	
	Tstg.	- 30 ~ + 85	
	Tsol.	260	

\*1. pulse width : t w 100 sec.period : T=10msec.

\*2. No icebound or dew

\*3. For MAX.5 seconds at the position of 1mm from the package

### ELECTRO-OPTICAL CHARACTERISTICS

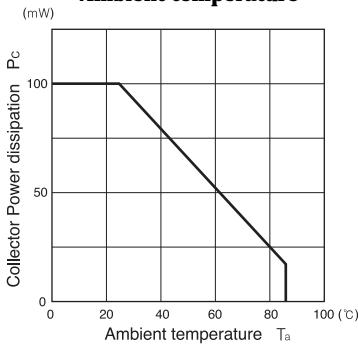
(Ta=25 °C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Input	V <sub>F</sub>	I <sub>F</sub> =20mA		1.2	1.4	V
	I <sub>R</sub>	V <sub>R</sub> =5V			10	µA
	p	I <sub>F</sub> =20mA	940			nm
Output	I <sub>CEO</sub>	V <sub>C-E</sub> =10V		1	100	nA
	I <sub>C</sub>	I <sub>F</sub> =20mA, V <sub>C-E</sub> =5V(Non-shading)	0.8		10	mA
Transmission leakage current	I <sub>CED</sub>	I <sub>F</sub> =20mA, V <sub>C-E</sub> =5V(shading)		0.5	10	µA
	V <sub>C-E(sat)</sub>	I <sub>F</sub> =20mA, I <sub>C</sub> =0.1mA		0.15	0.4	V
Rise time	tr	V <sub>CC</sub> =5V, I <sub>C</sub> =2mA, R=100		4		usec.
	tf			5		usec.

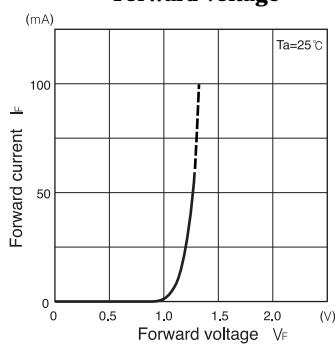
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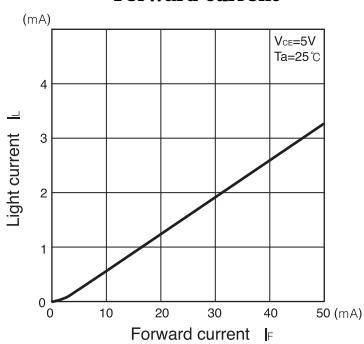
**Collector power dissipation Vs.  
Ambient temperature**



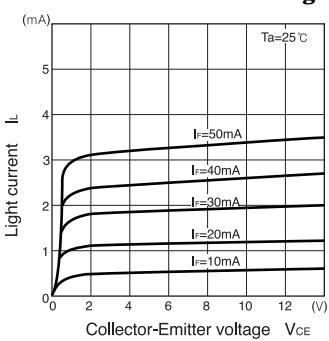
**Forward current Vs.  
Forward voltage**



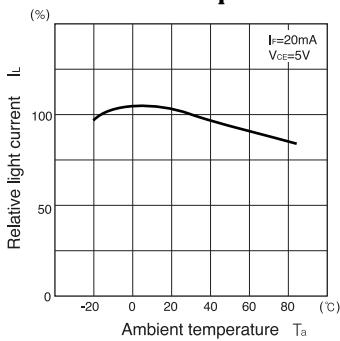
**Light current Vs.  
Forward current**



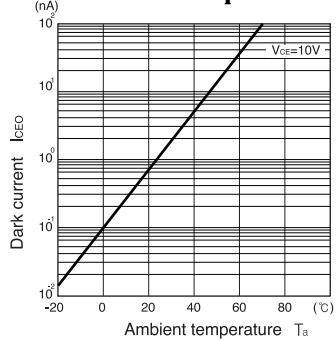
**Light current Vs.  
Collector-Emitter voltage**



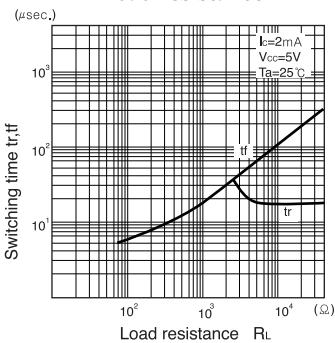
**Relative light current Vs.  
Ambient temperature**



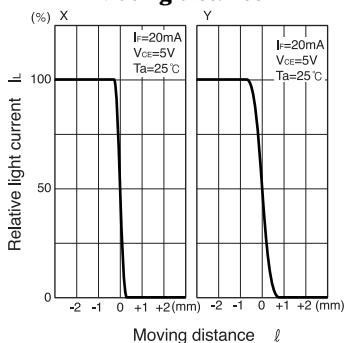
**Dark current Vs.  
Ambient temperature**



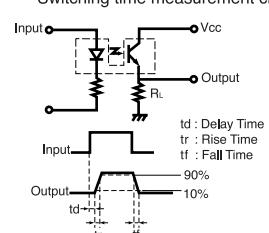
**Switching time Vs.  
Load resistance**



**Relative light current Vs.  
Moving distance**



Switching time measurement circuit



Method of measuring position detection characteristic

