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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 - 209

The SG - 209 photointerrupter high - performance standard type, combines high - output GaAs IRED with high sensitive phototransistor.

FEATURES

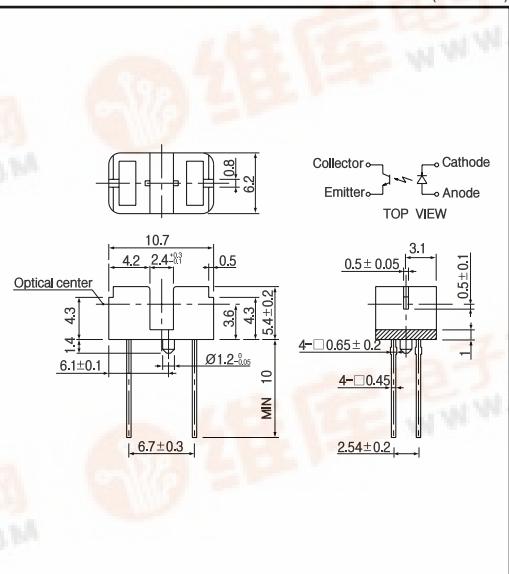
- 0.5mm aperture
- High - speed response
- Easy to mount on P.C.B.
- Widely applicable

APPLICATIONS

- Tape - end sensors
- Timing sensors
- Edge sensors
- Copiers

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

(Ta=25 °C)

Item	Symbol	Rating	Unit
Input	Pd	100	mW
	Vr	5	V
	If	60	mA
	Ifp	1	A
Output	Pc	100	mW
	Ic	40	mA
	Vceo	30	V
	Vebo	5	V
	Operating temp.	Topr.	- 20 ~ +85
Storage temp.	Tstg.	- 30 ~ +85	
	Soldering temp. ²	Tsol.	240

*1.t w 100 μsec. period : T=10msec.

*2. For MAX. 5 seconds at the position of 2mm from the package

ELECTRO-OPTICAL CHARACTERISTICS

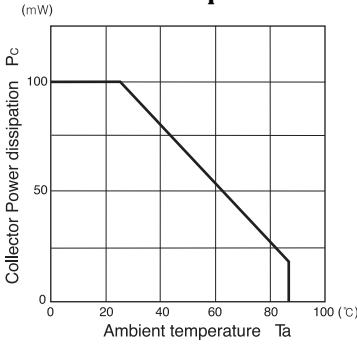
(Ta=25 °C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Input	Vf	If=30mA		1.2	1.5	V
	Ir	Vr=5V			10	μA
	Ct	V=0, f=1KHz		25		pF
	p			940		nm
Output	Iceo	Vce=10V			0.1	μA
Light current	Il	Vce=5V, If=20mA	0.5			mA
	Vce(sat)	If=30mA, Il=0.1mA			0.4	V
Switching speeds	Rise time	Vcc=5V, If=2mA		5		μsec.
	Fall time	Rc=100		5		μsec.

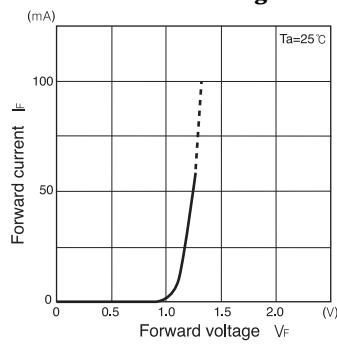
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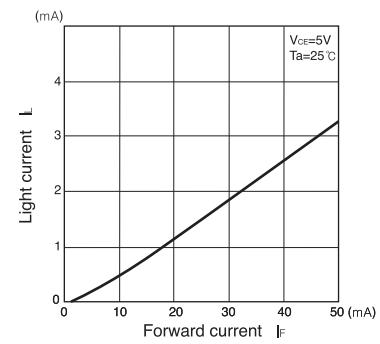
**Collector power dissipation Vs.
Ambient temperature**



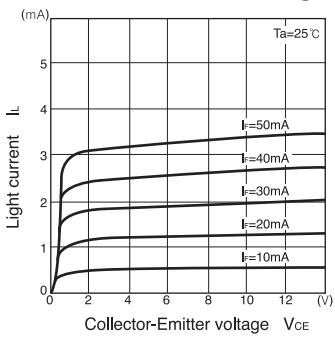
**Forward current Vs.
Forward voltage**



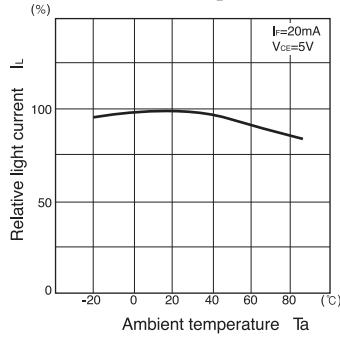
**Light current Vs.
Forward current**



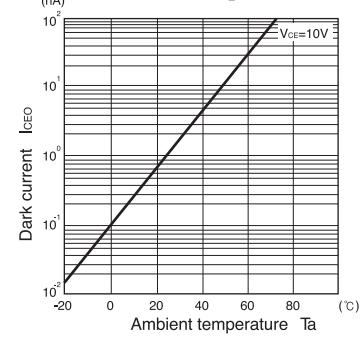
**Light current Vs.
Collector-Emitter voltage**



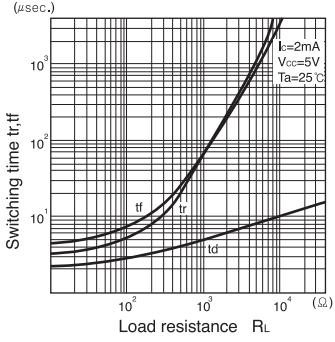
**Relative light current Vs.
Ambient temperature**



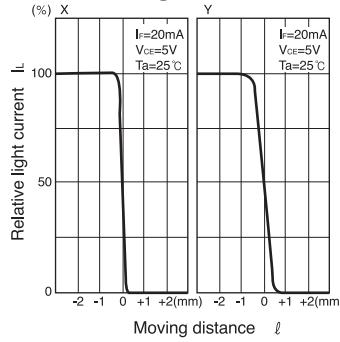
**Dark current Vs.
Ambient temperature**



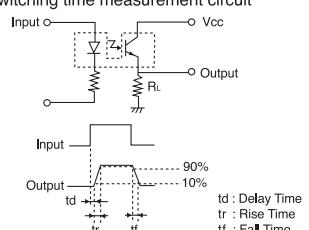
**Switching time Vs.
Load resistance**



**Relative light current Vs.
Moving distance**



Switching time measurement circuit



Method of measuring position characteristic

