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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 - 207

The SG - 207 photointerrupter high - performance standard type, combines high - output GaAs IRED with high sensitive phototransistor.

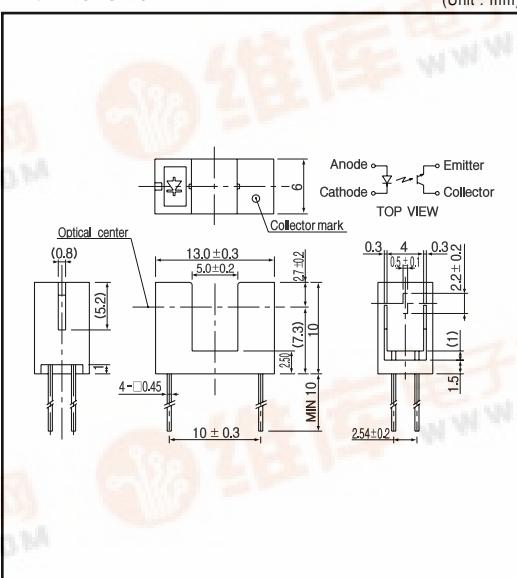
FEATURES

- High performance
- High - speed response
- 5mm gap.
- Widely applicable

APPLICATIONS

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

DIMENSIONS



MAXIMUM RATINGS

(Ta=25 °C)

Item	Symbol	Rating	Unit
Input	P _D	100	mW
	V _R	5	V
	I _F	60	mA
	I _{FP}	1	A
Output	P _C	100	mW
	I _C	40	mA
	V _{CEO}	30	V
	V _{ECO}	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

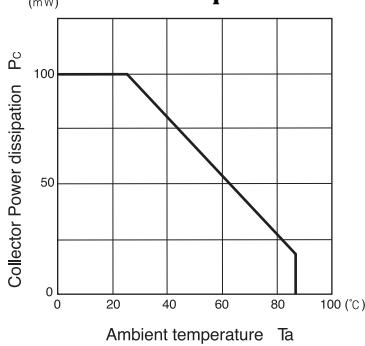
(Ta=25 °C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Input	V _F	I _F =30mA		1.2	1.5	V
	I _R	V _R =5V			10	μA
	C _I	V=0, f=1KHz		25		pF
	λ _P			940		nm
Output	I _{CEO}	V _{CEO} =10V			0.1	μA
Light current	I _L	V _{CEO} =5V, I _F =20mA	0.25			mA
O-C saturation voltage	V _{CEO(sat)}	I _F =30mA, I _L =0.1mA			0.3	V
Switching speeds	Rise time	V _{CC} =5V, I _L =2mA		5		μsec.
	Fall time	R _L =100		5		μsec.

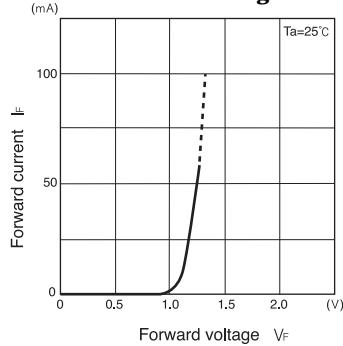
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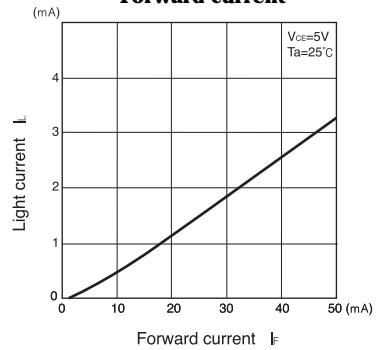
**Collector power dissipation Vs.
Ambient temperature**



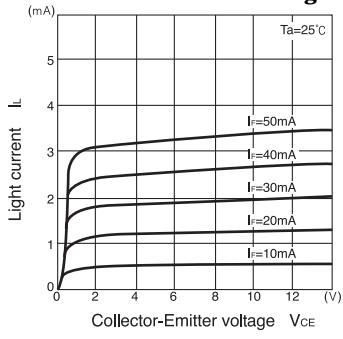
**Forward current Vs.
Forward voltage**



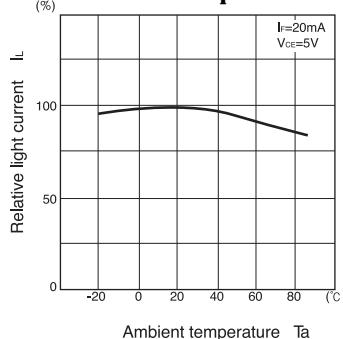
**Light current Vs.
Forward current**



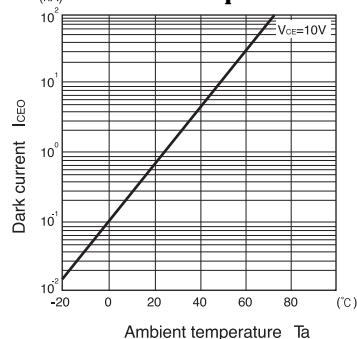
**Light current Vs.
Collector-Emitter voltage**



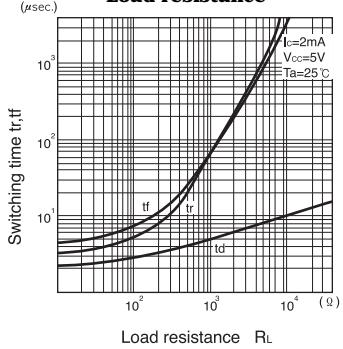
**Relative light current Vs.
Ambient temperature**



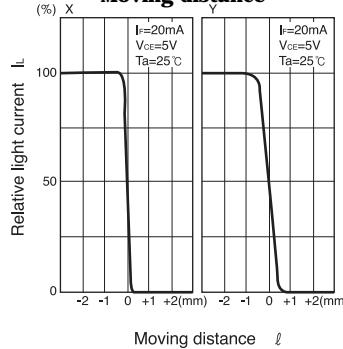
**Dark current Vs.
Ambient temperature**



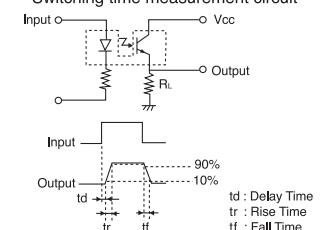
**Switching time Vs.
Load resistance**



**Relative light current Vs.
Moving distance**



Switching time measurement circuit



Method of measuring position characteristic

