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急出货

KODENSHI

Photointerrupters(Transmissive)

SG - 203

The SG - 203 photointerrupter high - performance standard type, combines high - output GaAs IRED with high sensitive phototransistor.

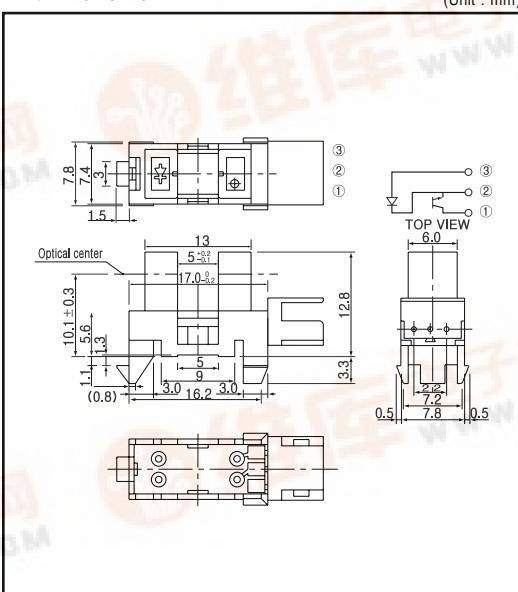
FEATURES

- 0.5mm aperture
- High - speed reponse
- Available for 2 type P.C.Bs.
- Widely applicable

APPLICATIONS

- Copiers
- Facsimiles
- Printers
- Edge sensors
- Floppy disk drives

DIMENSIONS



MAXIMUM RATINGS

(Ta=25 °C)

	Item	Symbol	Rating	Unit
Input	Power dissipation	P _D	100	mW
	Reverse voltage	V _R	5	V
	Forward current	I _F	60	mA
	Pulse forward current ^①	I _{FP}	1	A
Output	Collector power dissipation	P _C	100	mW
	Collector current	I _C	40	mA
	C - E voltage	V _{CEO}	30	V
	E - C voltage	V _{ECO}	5	V
	Operating temp. ^②	Topr. ^②	- 20 ~ + 85	
	Storage temp.	Tstg. ^②	- 30 ~ + 85	

① t w 100 μsec, period : T=10msec.

② The connector shall be inserted or pulled out at normal temperature

ELECTRO-OPTICAL CHARACTERISTICS

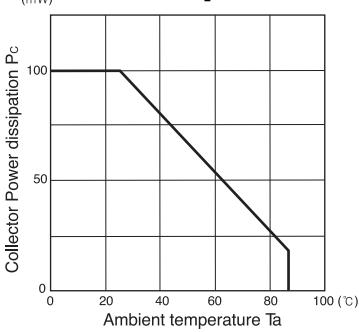
(Ta=25 °C)

	Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Input	Forward voltage	V _F	I _F =30mA		1.2	1.5	V
	Reverse current	I _R	V _R =5V			10	μA
	Capacitance	C _I	V=0, f=1KHz		25		pF
	Peak wavelength	λ			940		nm
Output	Collector dark current	I _{CEO}	V _{CE} =10V			0.1	μA
Light current	I _L		V _{CE} =5V, I _F =20mA	0.6			mA
	V _{CE(sat)}		I _F =30mA, I _L =0.1mA			0.4	V
Switching speeds	Rise time	t _r	V _{CC} =5V, I _L =2mA		5		μsec.
	Fall time	t _f	R _L =100k		5		μsec.

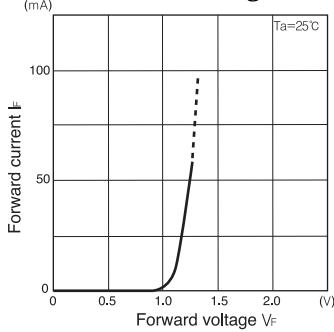
Photo interrupters(Transmissive)

SG - 203

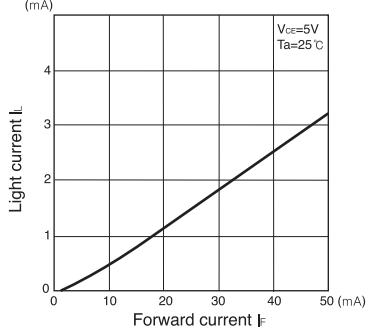
**Collector power dissipation Vs.
Ambient temperature**



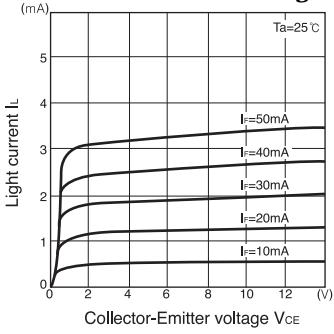
**Forward current Vs.
Forward voltage**



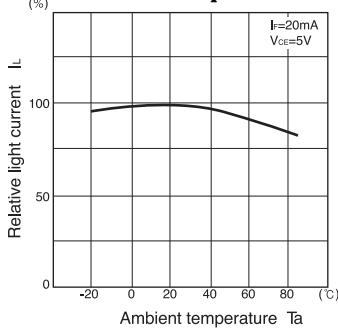
**Light current Vs.
Forward current**



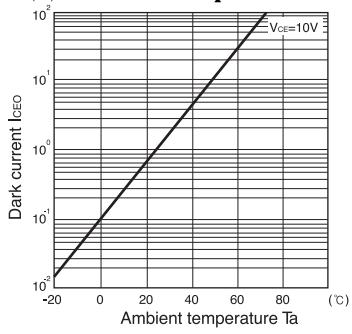
**Light current Vs.
Collector-Emitter voltage**



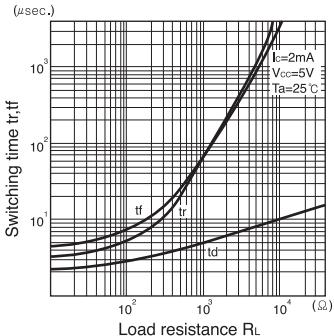
**Relative light current Vs.
Ambient temperature**



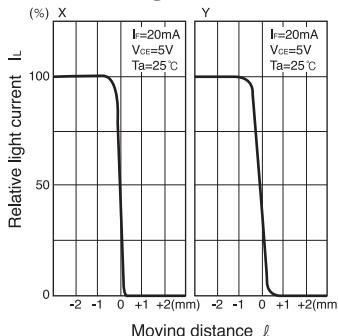
**Dark current Vs.
Ambient temperature**



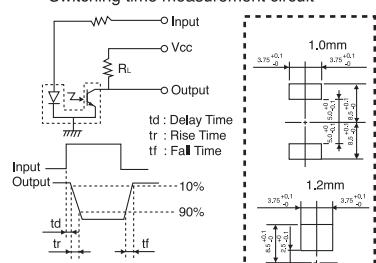
**Switching time Vs.
Load resistance**



**Relative light current Vs.
Moving distance**



Switching time measurement circuit



Method of measuring position characteristic

