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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 - 223

The SG - 223 is a photointerrupter consisting of GaAs IRED and phototransistor.

FEATURES

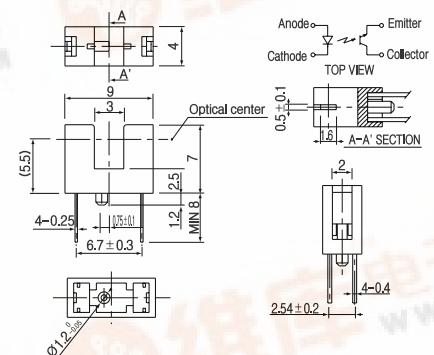
- 0.4mm aperture
- Easy to mount on P.C.B.
- Very compact

APPLICATIONS

- Floppy disk drives
- Camera

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

(Ta=25 °C)

Item	Symbol	Rating	Unit
Input	P _D	75	mW
	V _R	5	V
	I _F	50	mA
Output	I _{FP}	1	A
	P _C	75	mW
	I _C	20	mA
	V _{CEO}	30	V
	V _{ECD}	5	V
Operating temp.	Topr.	- 25 ~ +85	
Storage temp.	Tstg.	- 30 ~ +85	
Soldering temp.* ²	Tsol.	260	

*1.t w 100 μsec. period :T=10msec.

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

ELECTRO-OPTICAL CHARACTERISTICS

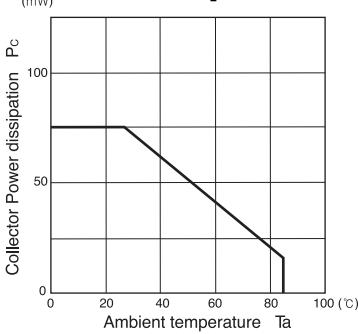
(Ta=25 °C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Input	V _F	I _F =20mA		1.2	1.4	V
	I _R	V _R =5V			10	μA
	C _I	V=0, f=1KHz		25		pF
	λ _P			940		nm
Output	I _{CEO}	V _{CE} =10V			0.1	μA
	I _C	V _{CE} =5V, I _F =20mA	0.7		14	mA
O-E saturation voltage	V _{CE(sat)}	I _F =20mA, I _C =0.1mA		0.15	0.4	V
Switching speeds	Rise time	V _{CC} =5V, I _C =0.5mA		10		μsec.
	Fall time	R _L =100		10		μsec.

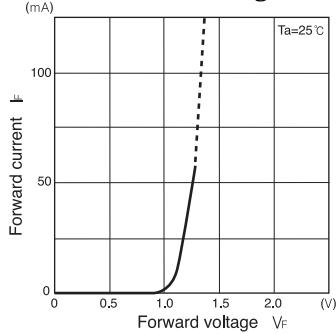
Photo interrupters(Transmissive)

SG - 223

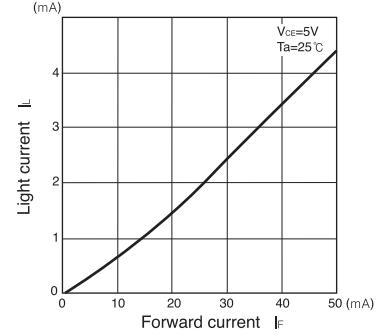
**Collector power dissipation Vs.
Ambient temperature**



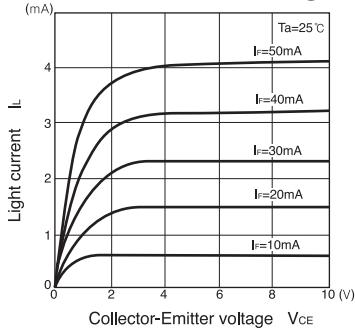
**Forward current Vs.
Forward voltage**



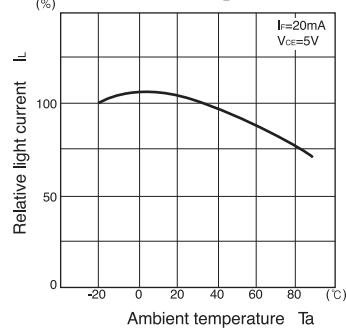
**Light current Vs.
Forward current**



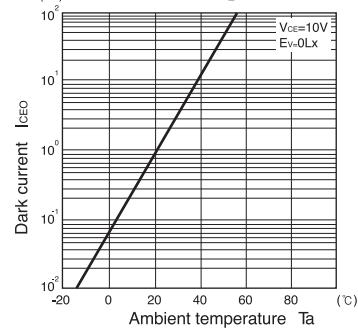
**Light current Vs.
Collector-Emitter voltage**



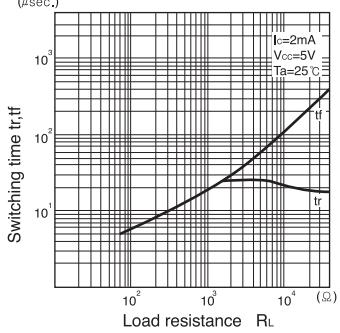
**Relative light current Vs.
Ambient temperature**



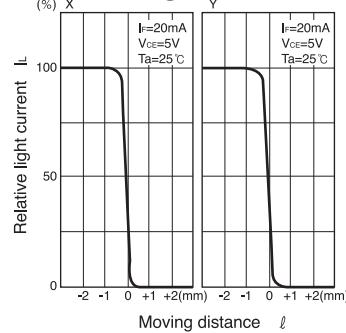
**Dark current Vs.
Ambient temperature**



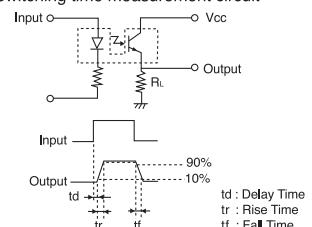
**Switching time Vs.
Load resistance**



**Relative light current Vs.
Moving distance**



Switching time measurement circuit



Method of measuring position characteristic

