

Photointerrupters(Transmissive)

KODENSHI

SG - 264

The SG - 264 photointerrupter high - performance standard type, combines high - output GaAs IRED with high sensitive phototransistor.

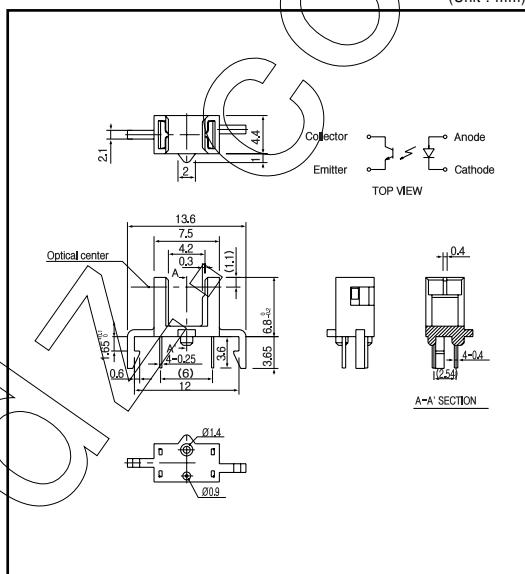
FEATURES

- PWB direct mount type
- GAP : 4.2mm
- Snap-in mount
- With the installation positioning boss

APPLICATIONS

- Cassette mecha
- Facsimiles
- CD changers
- VTR

DIMENSIONS



MAXIMUM RATINGS

Item	Symbol	Rating	Unit
Input	P _D	75	mW
	I _F	50	mA
	V _R	5	V
	I _{FP}	0.5	A
Output	P _C	75	mW
	I _C	20	mA
	V _{CEO}	30	V
	V _{ECD}	5	V
Operating temp. ^{*2}	Topr.	-20 ~ +85	
Storage temp. ^{*2}	Tstg.	-30 ~ +100	
Soldering temp. ^{*3}	T _{SOL}	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

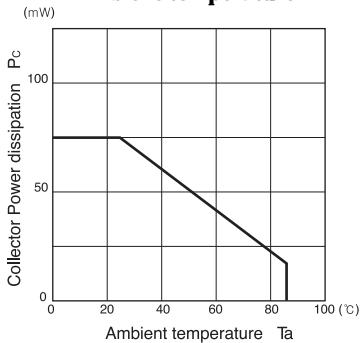
(Ta=25 °C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Input	V _F	I _F =20mA		1.2	1.4	V
	I _R	V _R =5V			10	μA
	p	I _F =20mA		940		nm
Output	I _{CEO}	I _C =10V		1	100	nA
	I _{CD}	I _C =20mA, V _E =5V, Non-shading	0.2		5	mA
Transmiss.	I _L	I _C =20mA, V _E =5V, Non-shading		0.5	10	μA
	I _{CEOD}	I _C =20mA, V _E =5V(shading)		0.15	0.4	V
	V _{CE(sat)}	I _C =20mA, I _C =0.05mA			50	usec.
Rise time	tr	V _{CC} =5V, I _C =0.1mA, R=1K			50	usec.
	tf				50	usec.

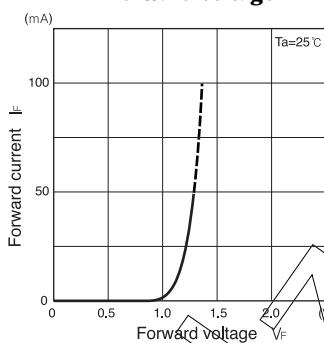
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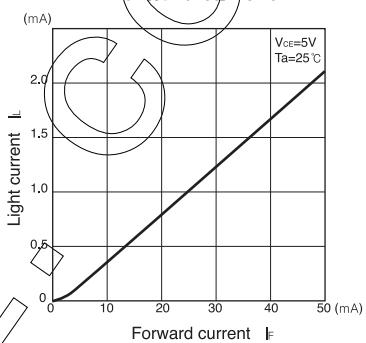
**Collector power dissipation Vs.
Ambient temperature**



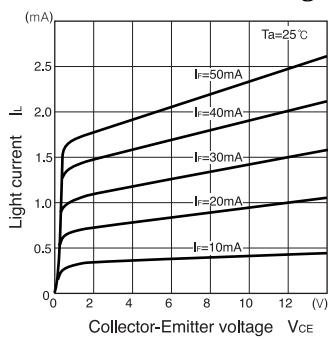
**Forward current Vs.
Forward voltage**



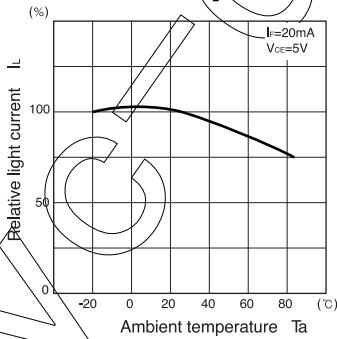
**Light current Vs.
Forward current**



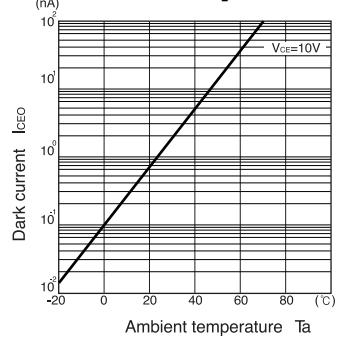
**Light current Vs.
Collector-Emitter voltage**



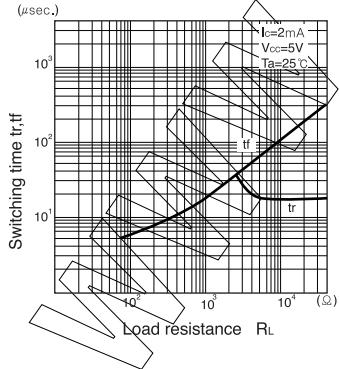
**Relative light current Vs.
Ambient temperature**



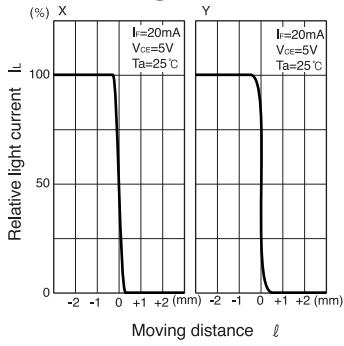
**Dark current vVs.
Ambient temperature**



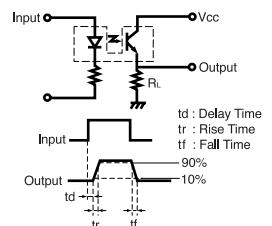
**Switching time Vs.
Load resistance**



**Relative light current Vs.
Moving distance**



Switching time measurement circuit



Method of measuring position detection characteristic

