

Photointerrupter(Transmissive)

KODENSHI

KSG-262

DESCRIPTION

The KSG-262 photointerrupter is high-performance standard type, combines high-output GaAs IRED with high sensitive phototransistor, Compact size.

FEATURES

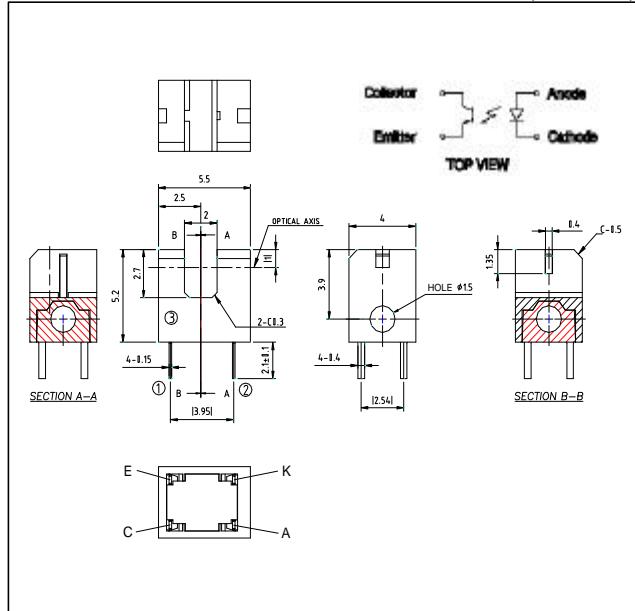
- Screw - mount type
- GAP : 2.0mm
- Compact
- Widely applicable

APPLICATIONS

- Floppy disk drives
- CD-ROM drives
- Printers
- Facsimiles
- Cameras

DIMENSIONS

(UNIT:mm)



ABSOLUTE MAXIMUM RATINGS (Ta=25 °C)

Parameter		Symbol	Rating	Unit
Input	Forward Current	I _F	50	mA
	Pulse Forward Current ^{*1}	I _{FP}	0.5	A
	Reverse Voltage	V _R	5	V
	Power Dissipation	P _D	75	mW
Output	Collector Emitter Voltage	BV _{CEO}	30	V
	Emitter Collector Voltage	BV _{ECO}	5	V
	Collector Current	I _C	20	mA
	Collector Power Dissipation	P _C	75	mW
Operating Temperature ^{*2}		T _{OPR}	-20 ~ +85	
Storage Temperature ^{*2}		T _{STG}	-30 ~ +100	
Soldering Temperature ^{*3}		T _{SOL}	260	

*1. tw 100 μsec.period : T=10msec

*2. No icebound or dew

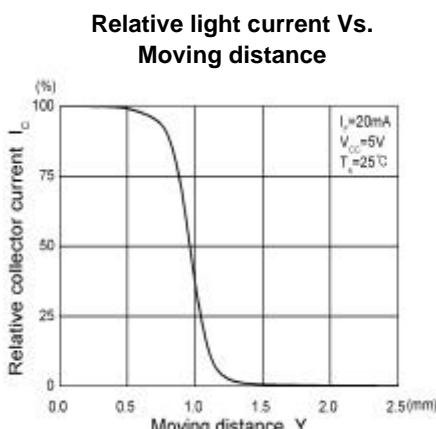
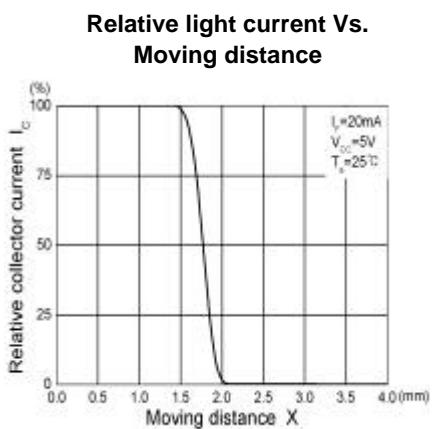
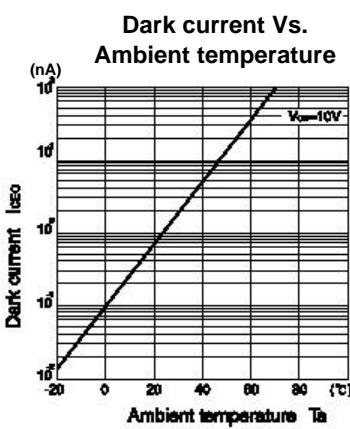
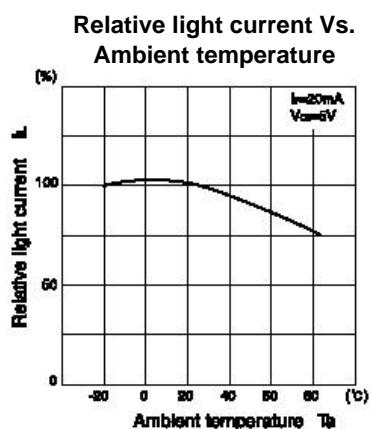
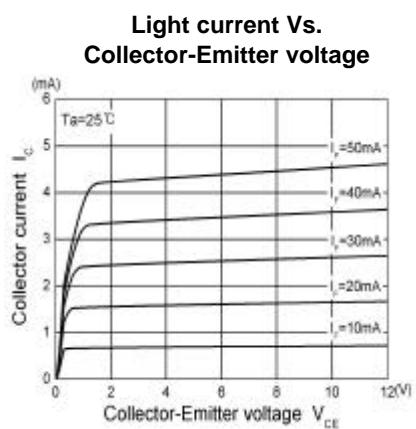
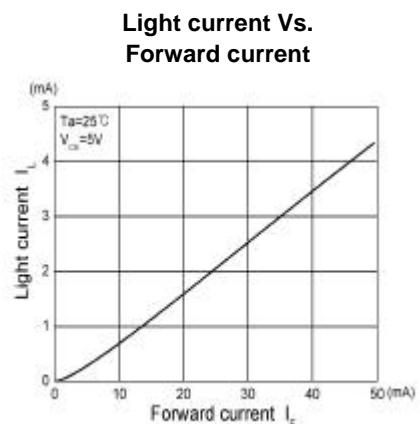
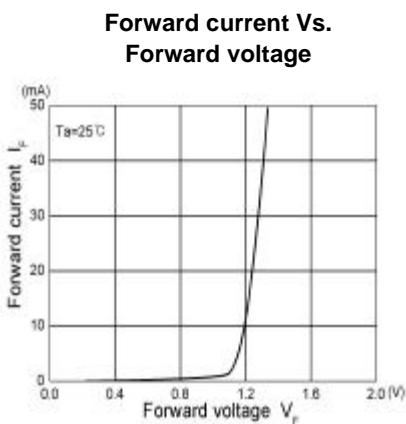
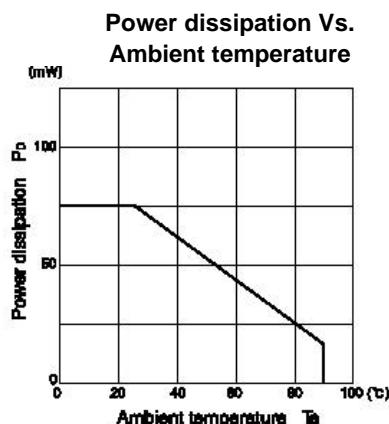
*3. For MAX. 5 seconds at the position of 2mm from the package

ELECTRO-OPTICAL CHARACTERISTICS (Ta=25 °C)

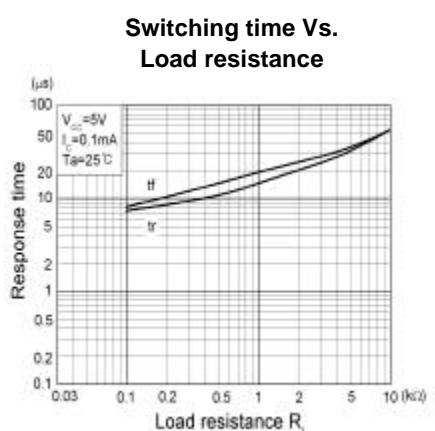
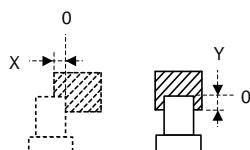
Parameter		Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Input	Forward Voltage	V _F	I _F =20mA	-	1.25	1.5	V
	Reverse Current	I _R	V _R =5V	-	-	10	μA
	Capacitance	C _D	V=0, f=1KHz	-	25	-	pF
	Peak Wavelength	λ _P	I _F =20mA	-	940	-	nm
Output	Dark Current	I _{CEO}	V _{CE} =10V, E _V =0LX	-	1.0	100	nA
Coupled	Collector Current	I _C	V _{CE} =5V, I _F =20mA (Non-shading)	0.25	-	2.5	mA
	Leakage Current	I _{CEOD}	V _{CE} =5V, I _F =10mA (shading)	-	0.5	10	μA
	Collector Emitter Saturation Voltage	V _{CE(SAT)}	I _F =10mA, I _C =0.3mA	-	0.15	0.4	V
	Response Time	t _r	V _{CC} =5V, I _C =0.1mA, R _L =1k	-	20	-	μs
		t _f		-	20	-	μs

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Method of measuring position detection characteristic



Switching time measurement circuit

