

SG - 211V

The SG - 211V photointerrupter high - performance standard type, combines high - output GaAs IRED with high sensitive phototransistor. Compact size.

FEATURES

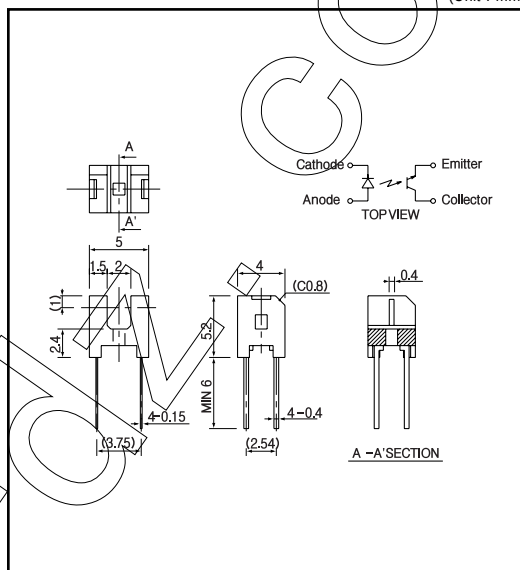
- PWB direct mount type
- GAP : 2.0mm
- Compact
- Low cost

APPLICATIONS

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

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

(Ta=25 °C)

Item	Symbol	Rating	Unit
Input	Power dissipation	75	mW
	Forward current	50	mA
	Reverse voltage	5	V
	Pulse forward current ^{*1}	0.5	A
Output	Collector power dissipation	75	mW
	Collector current	20	mA
	C - E voltage	30	V
	E - C voltage	5	V
Operating temp. ^{*2}		- 20 ~ +85	
Storage temp. ^{*2}		- 30 ~ +100	
Soldering temp. ^{*3}		260	

*1. t w 100 μsec. period : T=10msec. *2. No icebound or dew

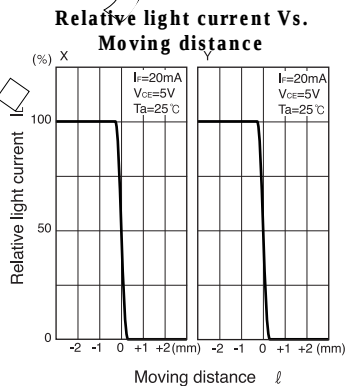
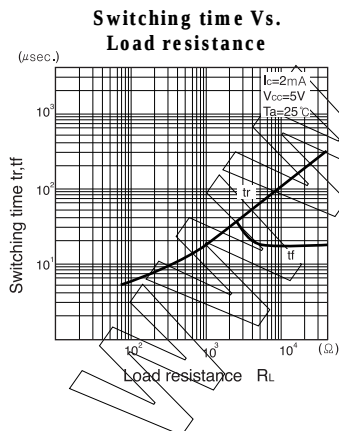
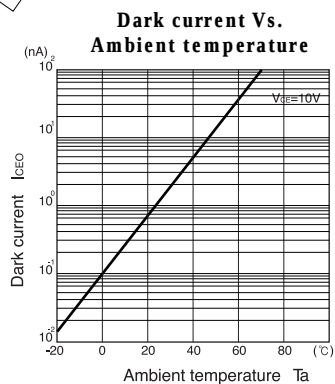
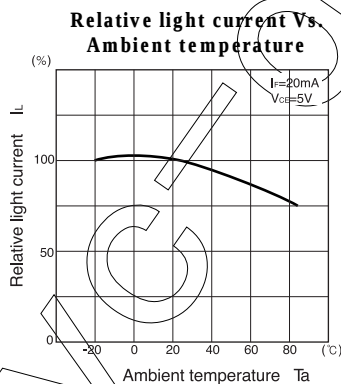
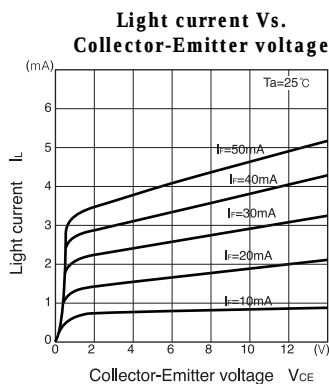
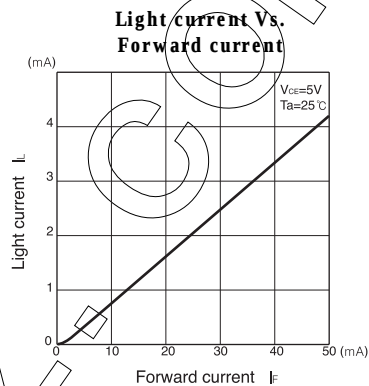
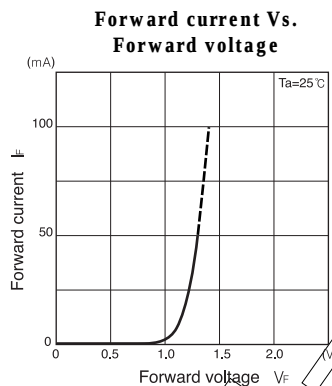
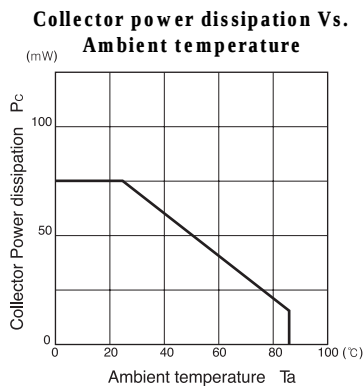
*3. For MAX. 5 seconds at the position of 2mm from the package

ELECTRO-OPTICAL CHARACTERISTICS

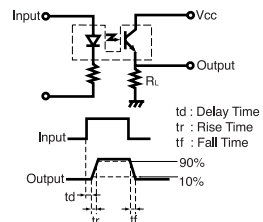
(Ta=25 °C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Input	Forward voltage	I _F = 20mA		1.2	1.4	V
	Reverse current	V _R = 5V			10	μA
	Peak wavelength	I _F = 20mA		940		nm
Output	Collector dark current	V _{CE} = 10V		1	100	nA
	Light current	I _F = 10mA, V _{CE} = 5V, (Nonshading)	0.25		1.2	mA
Transmissi	Package current	I _F = 10mA, V _{CE} = 5V, (shading)		0.5	10	μA
	C - E saturation voltage	I _F = 10mA, I _C = 0.03mA		0.15	0.4	V
	Rise time	V _{CC} = 5V, I _C = 0.1mA, R = 1kΩ		50	150	μsec.
	Fall time			50	150	μsec.

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Switching time measurement circuit



Method of measuring position detection characteristic

