

[查询SG-268供应商](#)

捷多邦，专业PCB打样工厂，24小时

加急出货

Photointerrupters(Transmissive)

KODENSHI

SG - 268

The SG - 268 photointerrupter high – performance standard type, combines high – output GaAs IRED with high sensitive phototransistor.

FEATURES

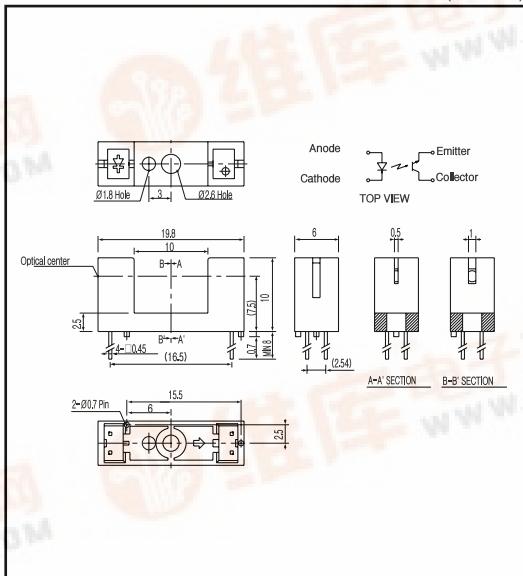
- PWB direct mount type
- GAP : 10.0mm
- With the installation positioning boss
- Single – side screw – mount

APPLICATIONS

- Analysis machines
- Optical switches
- Amusement machines
- PPC

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

(Ta=25 °C)

| Item | Symbol | Rating | Unit |
|------------------------------|------------------|-------------|------|
| Input | P _D | 100 | mW |
| | I _F | 60 | mA |
| | V _R | 5 | V |
| Output | I _{FP} | 1 | A |
| | P _C | 100 | mW |
| | I _C | 40 | mA |
| | V _{CEO} | 30 | V |
| | V _{ECD} | 5 | V |
| Operating temp. ² | Topr. | - 20 ~ + 85 | |
| | Tstg. | - 30 ~ + 85 | |
| | Tsol. | 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

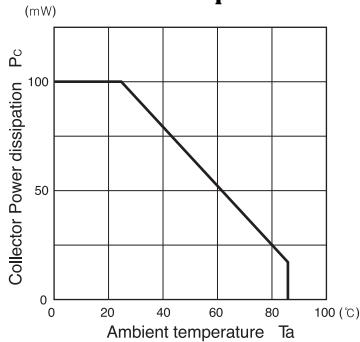
(Ta=25 °C)

| 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 |
| Output | p | I _F =20mA | | 940 | | nm |
| | I _{CEO} | V _{CE} =10V | | 1 | 100 | nA |
| Transistor | I _C | I _F =20mA, V _E =5V(Non-shading) | 0.1 | | 2.5 | mA |
| | I _{CEO} | I _F =20mA, V _E =5V(shading) | | 0.1 | 1 | µA |
| C-E saturation voltage | V _{CE(sat)} | I _F =20mA, I _C =0.1mA | | 0.15 | 0.4 | V |
| | tr | V _{CC} =5V, I _F =2mA, R=100 | | | 4 | usec. |
| | tf | V _{CC} =5V, I _F =2mA, R=100 | | | 5 | usec. |
| | | | | | | |

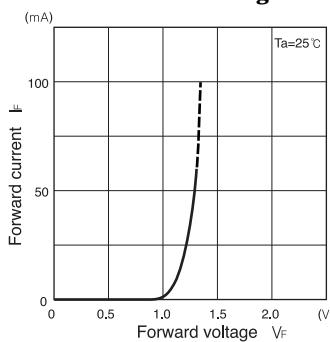
Photointerrupters(Transmissive)

SG - 268

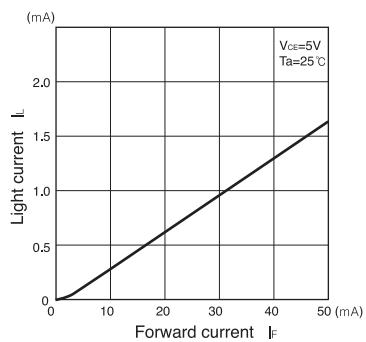
**Collector power dissipation Vs.
Ambient temperature**



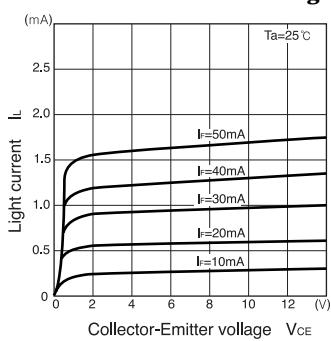
**Forward current Vs.
Forward voltage**



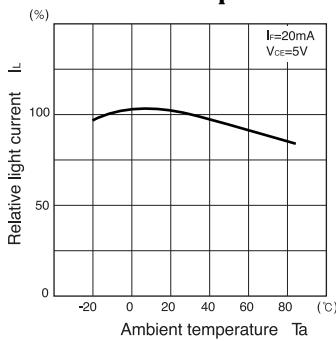
**Light current Vs.
Forward current**



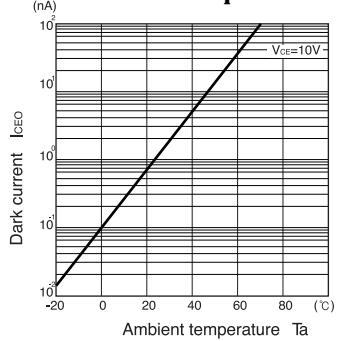
**Light current Vs.
Collector-Emitter voltage**



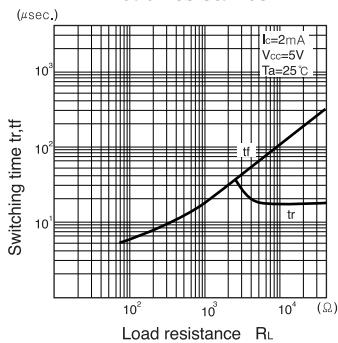
**Relative light current Vs.
Ambient temperature**



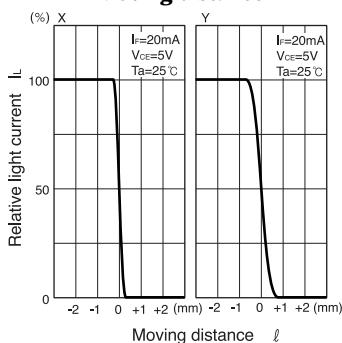
**Dark current Vs.
Ambient temperature**



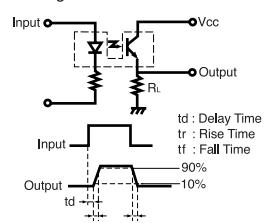
**Switching time Vs.
Load resistance**



**Relative light current Vs.
Moving distance**



Switching time measurement circuit



Method of measuring position detection characteristic

