

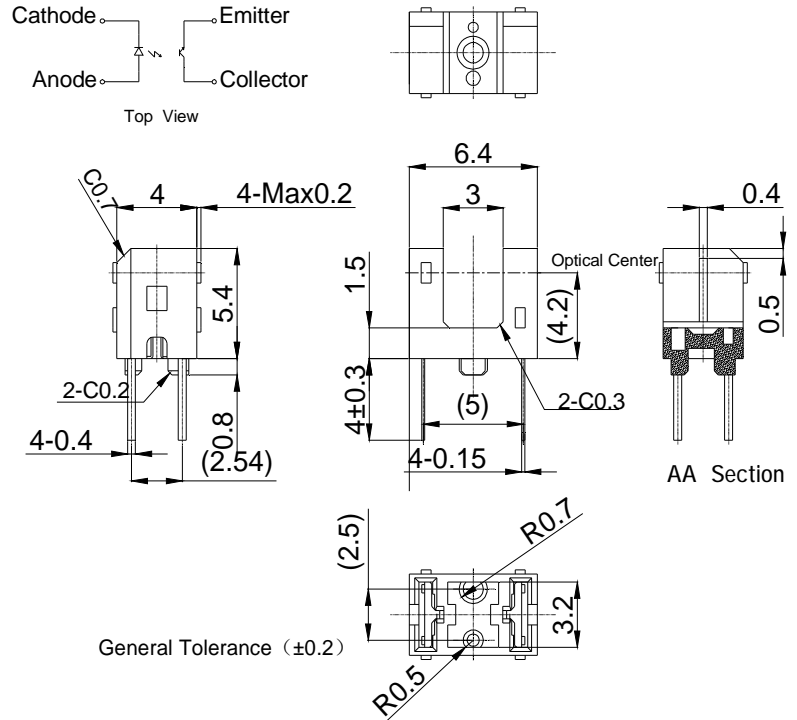
SIT612

Photo Interrupter

The SIT612 is a photointerrupter high-performance standard type, combines high-output GaAs IRED with high sensitive phototransistor

Dimensions

(unit: mm)



Features

- PCB direct mount type
- GAP:3.0mm
- With the installation positioning boss
- Compact/ Low cost
- RoHS Compliance

Applications

- Printer
- VTR
- Cassette mecha
- Car stereo

Maximum Ratings

(Ta=25°C)

| Item | | Symbol | Rating | Unit |
|-------------------------------------|-----------------------------|-----------|-----------|------|
| Input | Power dissipation | P_D | 75 | mW |
| | Forward current | I_F | 50 | mA |
| | Reverse voltage | V_R | 5 | V |
| Output | Collector power dissipation | P_C | 75 | mW |
| | Collector current | I_C | 20 | mA |
| | Collector-Emitter voltage | V_{CEO} | 30 | V |
| | Emitter-Collector voltage | V_{ECO} | 5 | V |
| Operating temperature ^{*1} | | Topr. | -20 ~ +85 | °C |
| Storage temperature ^{*1} | | Tstg. | -30 ~ +85 | °C |
| Soldering temperature ^{*2} | | Tsol. | 260 | °C |

*1. No icebond or dew

*2. The soldering should be 1.2mm away from bottom of the holder t=within 3s

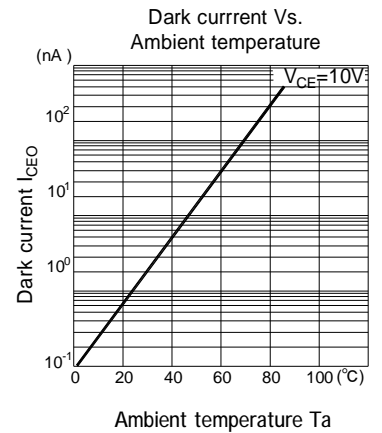
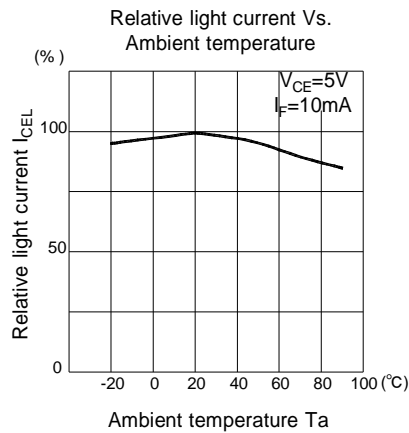
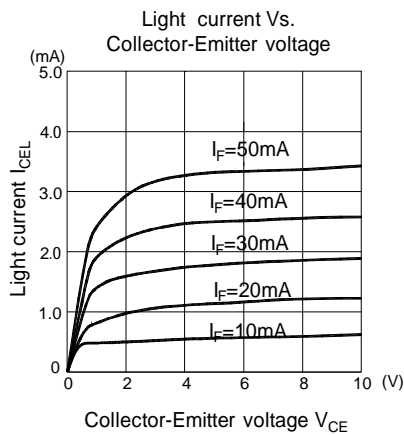
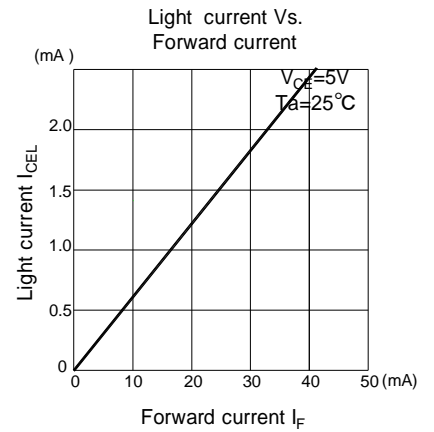
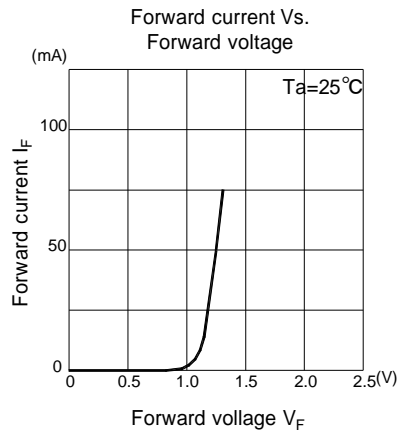
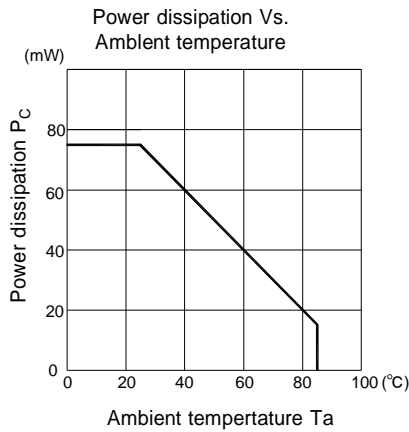
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Electro-Optical Characteristics

(Ta=25°C)

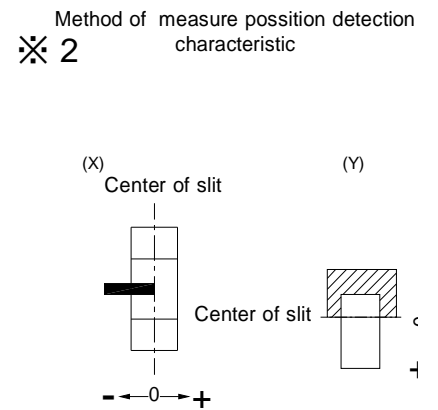
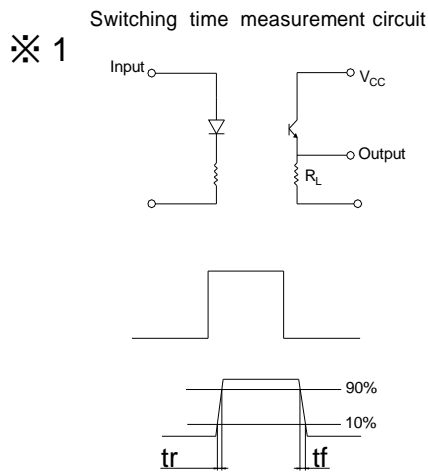
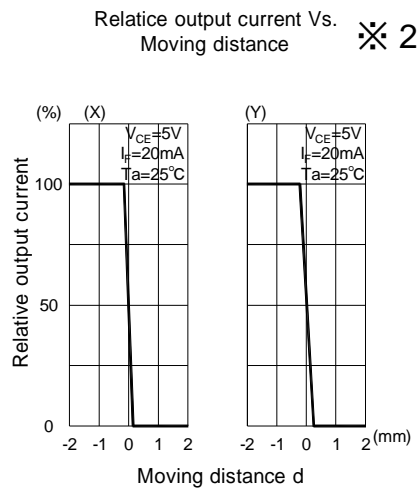
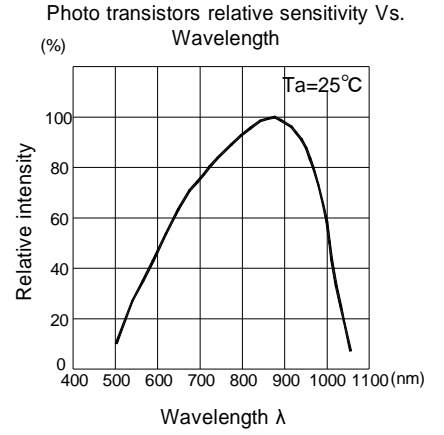
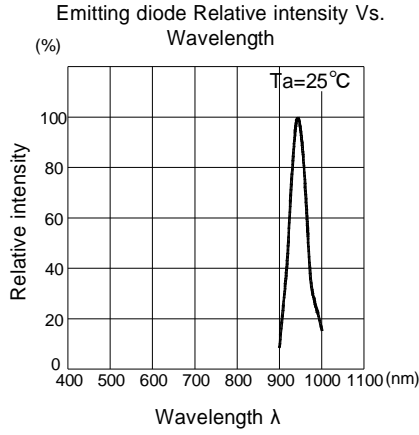
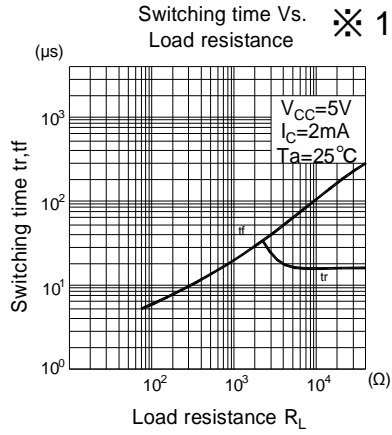
| Item | | Symbol | Conditions | Min. | Typ. | Max. | Unit |
|--------------------------|----------------------|---------------|---|------|------|------|---------------|
| Input | Forward voltage | V_F | $I_F=20\text{mA}$ | - | 1.2 | 1.4 | V |
| | Reverse current | I_R | $V_R=5\text{V}$ | - | - | 10 | μA |
| | Peak wavelength | λ_P | $I_F=20\text{mA}$ | - | 940 | - | nm |
| Output | Dark current | I_{CEO} | $V_{CE}=10\text{V}$ $E_V=0\text{lx}$ | - | 3 | 100 | nA |
| | Peak SENS.Wavelength | λ_P | - | - | 880 | - | nm |
| Transfer characteristics | Light current | I_{CEL} | $I_F=20\text{mA}$ $V_{CE}=5\text{V}$ Non-Shading | 0.2 | - | 4.5 | mA |
| | Leak current | I_{CEOD} | $I_F=20\text{mA}$ $V_{CE}=5\text{V}$ Shading | - | 0.5 | 10 | μA |
| | C-E sat.voltage | $V_{CE(sat)}$ | $I_F=20\text{mA}$ $I_C=0.05\text{mA}$ | - | 0.15 | 0.4 | V |
| | Rise time | tr | $I_C=100\mu\text{A}$ $V_{CC}=5\text{V}$ $R_L=1\text{K}\Omega$ | - | 50 | - | μs |
| | Fall time | tf | | - | 50 | - | μs |



The contents of this data sheet are subject to change without advance notice for the purpose of improvement. When using this product, would you please refer to the latest specifications.

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Packing Specification

1. Place the specified (Max 100 pcs) number of products in a stick, (see picture 1)
2. 6 sets of sticks are tied by rubber band, 36 sets of sticks are put into a plastic bag (200*580) (see picture 2)
3. Put 10 plastic bags (filled with 36 sticks of products) into #2.5 Box (460*340*310)
4. Packing Slit is put on the surface of Outer-box (see picture 3)

