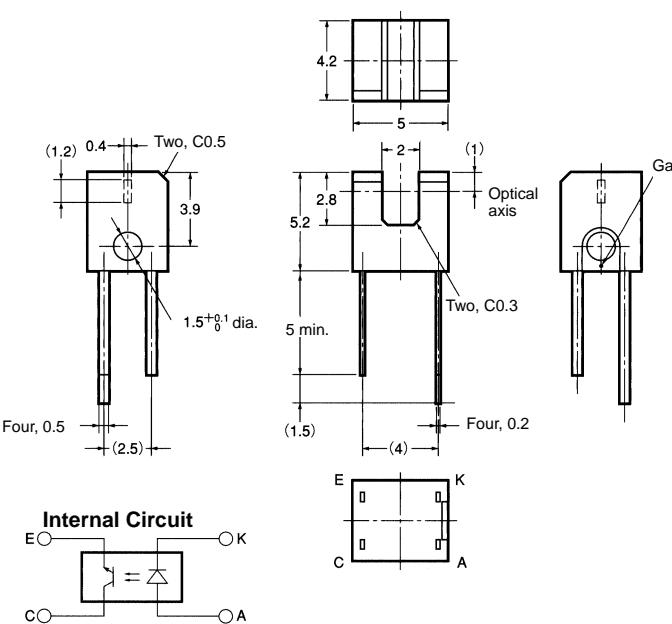


■ Dimensions

Note: All units are in millimeters unless otherwise indicated.



| Terminal No. | Name |
|--------------|-----------|
| A | Anode |
| K | Cathode |
| C | Collector |
| E | Emitter |

Unless otherwise specified,
the tolerances are ± 0.2 mm.

■ Features

- Ultra-compact with a sensor width of 5 mm and a slot width of 2 mm.
- PCB mounting type.
- High resolution with a 0.4-mm-wide aperture.

■ Absolute Maximum Ratings (Ta = 25°C)

| Item | Symbol | Rated value |
|-----------------------|---------------------------|-------------------------------------|
| Emitter | Forward current | I _F 50 mA (see note 1) |
| | Pulse forward current | I _{FP} --- |
| | Reverse voltage | V _R 5 V |
| Detector | Collector-Emitter voltage | V _{CEO} 30 V |
| | Emitter-Collector voltage | V _{ECO} 4.5 V |
| | Collector current | I _C 30 mA |
| | Collector dissipation | P _C 80 mW (see note 1) |
| Ambient temperature | Operating | T _{opr} -25°C to 85°C |
| | Storage | T _{stg} -30°C to 100°C |
| Soldering temperature | | T _{sol} 260°C (see note 2) |

Note: 1. Refer to the temperature rating chart if the ambient temperature exceeds 25°C.
2. Complete soldering within 3 seconds.

■ Electrical and Optical Characteristics (Ta = 25°C)

| Item | Symbol | Value | Condition |
|--------------|--------------------------------------|---------------------------------------|---|
| Emitter | Forward voltage | V _F 1.3 V typ., 1.6 V max. | I _F = 50 mA |
| | Reverse current | I _R 10 μA max. | V _R = 5 V |
| | Peak emission wavelength | λ _P 950 nm typ. | I _F = 50 mA |
| Detector | Light current | I _L 0.5 mA min. | I _F = 20 mA, V _{CE} = 5 V |
| | Dark current | I _D 500 nA max. | V _{CE} = 10 V, 0 lx |
| | Leakage current | I _{LEAK} --- | --- |
| | Collector-Emitter saturated voltage | V _{CE} (sat) 0.4 V max. | I _F = 20 mA, I _L = 0.3 mA |
| | Peak spectral sensitivity wavelength | λ _P 800 nm typ. | V _{CE} = 5 V |
| Rising time | | tr 10 μs typ. | V _{CC} = 5 V, R _L = 100 Ω, I _F = 20 mA |
| Falling time | | tf 10 μs typ. | V _{CC} = 5 V, R _L = 100 Ω, I _F = 20 mA |