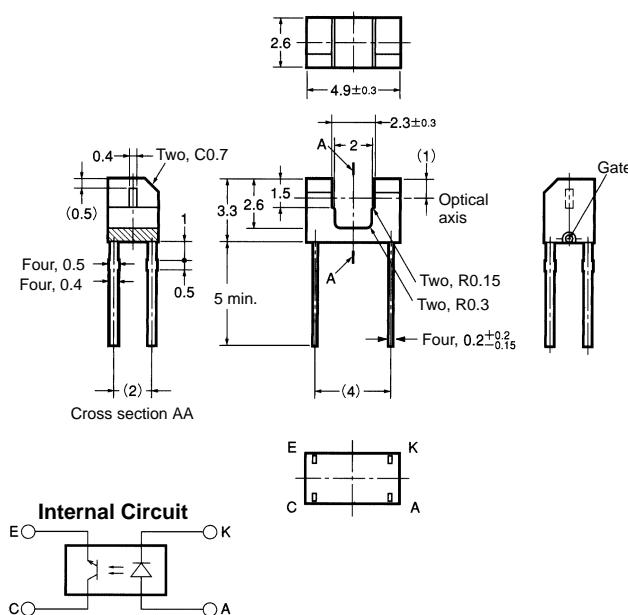


■ Dimensions

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 4.9 mm and a slot width of 2 mm.
- Low-height of 3.3 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 85°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	0.2 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 = 0.1 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