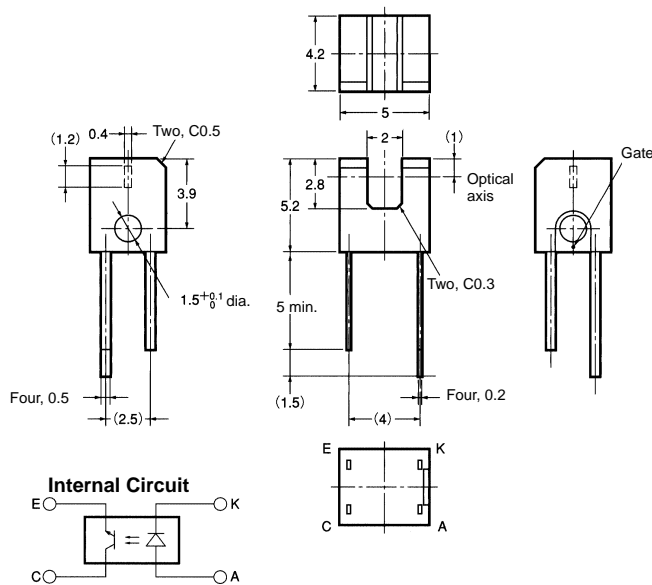


■ Dimensions

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 μ A 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	t_r	10 μ s typ.	$V_{CC} = 5$ V, $R_L = 100$ Ω , $I_F = 20$ mA
Falling time	t_f	10 μ s typ.	$V_{CC} = 5$ V, $R_L = 100$ Ω , $I_F = 20$ mA	