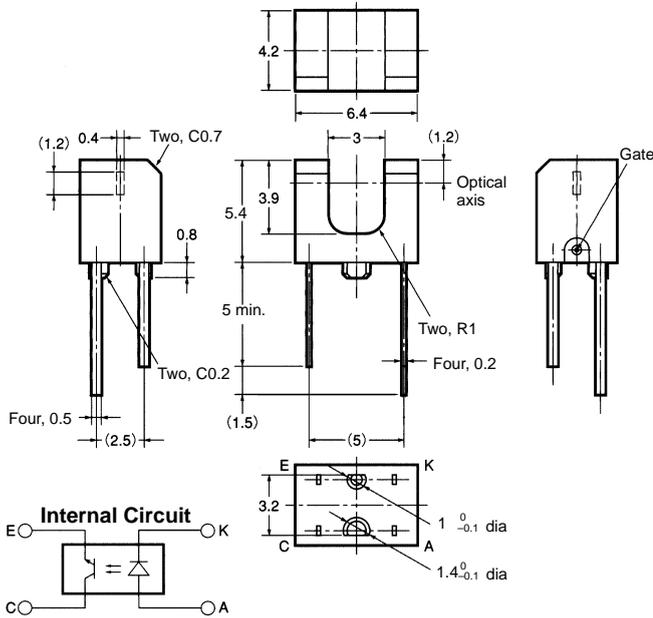


### ■ Dimensions

**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  $\pm 0.2$  mm.

### ■ Features

- Ultra-compact with a slot width of 3 mm.
- PCB mounting type.
- High resolution with a 0.4-mm-wide aperture.

### ■ Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

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
	Storage	$T_{stg}$ $-30^\circ\text{C}$ to $85^\circ\text{C}$
Soldering temperature		$T_{sol}$ $260^\circ\text{C}$ (see note 2)

- Note:**
1. Refer to the temperature rating chart if the ambient temperature exceeds  $25^\circ\text{C}$ .
  2. Complete soldering within 3 seconds.

### ■ Electrical and Optical Characteristics ( $T_a = 25^\circ\text{C}$ )

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 $\mu\text{A}$ max.	$V_R = 5$ V
	Peak emission wavelength	$\lambda_P$ 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	$V_{CE}(\text{sat})$ 0.4 V max.	$I_F = 20$ mA, $I_L = 0.1$ mA
	Peak spectral sensitivity wavelength	$\lambda_P$ 800 nm typ.	$V_{CE} = 5$ V
Rising time	$t_r$ 10 $\mu\text{s}$ typ.	$V_{CC} = 5$ V, $R_L = 100$ $\Omega$ , $I_F = 20$ mA	
Falling time	$t_f$ 10 $\mu\text{s}$ typ.	$V_{CC} = 5$ V, $R_L = 100$ $\Omega$ , $I_F = 20$ mA	