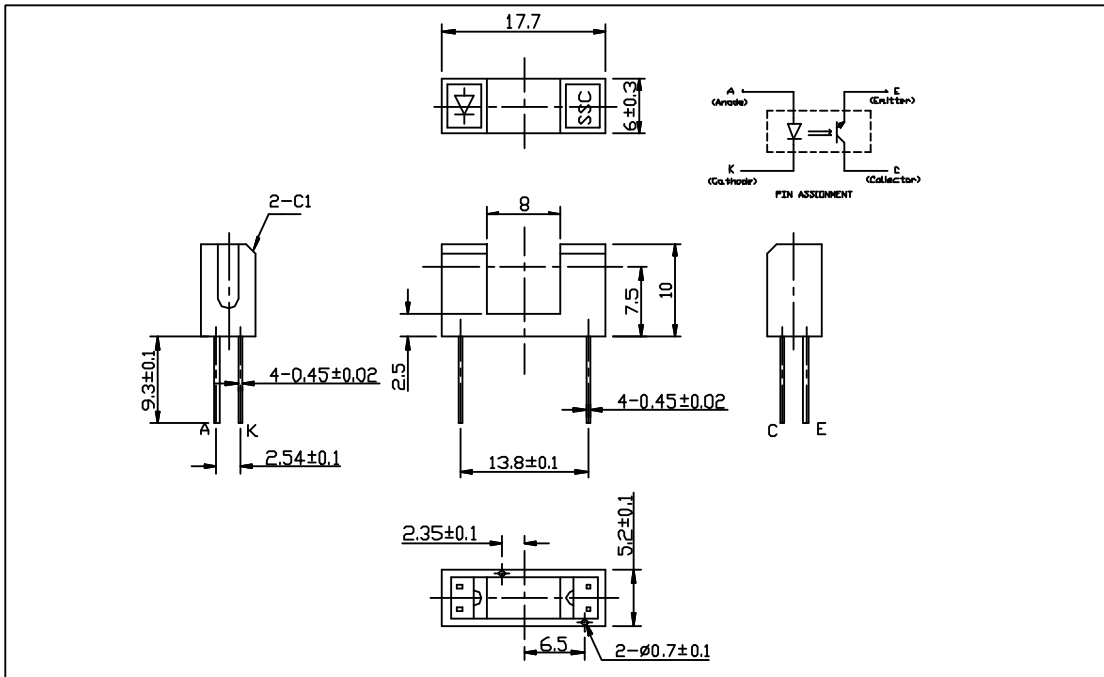


SPS-8T

□ Outline Dimension



□ Features

- ▣ High sensing accuracy
- ▣ High-speed response
- ▣ 8 mm gap

□ Applications

- ▣ Printers, Copiers
- ▣ Timing sensors
- ▣ Vending machines

□ Absolute Maximum Ratings (Ta=25)

Parameter		Symbol	Rating	Unit
Emitter	Forward Current	I_F	50	mA
	Reverse Voltage	V_R	5	V
Detector	Collector-Emitter Voltage	V_{CEO}	30	V
	Emitter-Collector Voltage	V_{ECO}	5	V
	Collector Current	I_C	20	mA
	Collector Power Dissipation	P_C	100	mW
Operating Temperature		T_{opr}	-25 ~ +85	
Storage Temperature		T_{stg}	-30 ~ +100	
Soldering Temperature		T_{sol}	260 (for 5sec)	

□ Soldering conditions:

Soldering iron: Temperature at tip of iron: 280 max (30W max)

Soldering time: 3sec. Max.

□ Electro-Optical Characteristics (Ta=25)

	Parameter	Symbol	Condition	Min	Typ	Max	Unit
Emitter	Forward Voltage	V_F	$I_F=20mA$	-	1.3	1.5	V
	Reverse Current	I_R	$V_R=5V$	-	0.01	10	μA
	Peak Emission Wavelength	λ_P	$I_F=20mA$	-	940	-	nm
Detector	Light Current	I_L	$V_{CE}=10V$ $I_F=20mA$	0.5	-	-	mA
	Collector Dark Current	I_{CEO}	$V_{CE}=10V$	-	-	0.2	μA
	C-E Saturation Voltage	$V_{CE(SAT)}$	$I_C=0.1mA$ $I_F=20mA$	-	0.1	0.4	V
	Peak Sensitivity Wavelength	λ_P	-	-	800	-	nm
Response Time: Rise Time		t_r	$V_{CE}=5V$ $I_L=2mA$	-	5	-	μs
Fall Time		t_f	$R_L=100\Omega$	-	6	-	μs