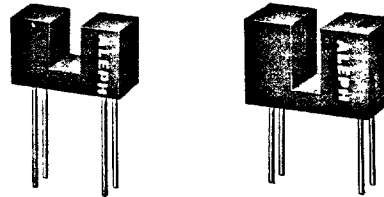


Interrupter Opto Sensor

OJ-1709/OJ-1919

T-41-73

- Photo transistor output
- Sensing slot width 3mm (0.12")
- High sensitivity, High resolution
- OJ-1709 : Ultra miniature



MAXIMUM RATINGS (Ta = 25°C)

Item	Symbol	Value
Input	Forward Current	IF = 50mA
	Reverse Voltage	VR = 5V
Output	C-E Voltage	VCEO = 30V
	E-C Voltage	VECO = 5V
	Collector Current	IC = 40 (50) mA
	Collector Power Dissipation	PC = 100 (75) mW
Operating Temp.	Topr	-25° ~ +85°C
Storage Temp.	Tstg	-30° ~ +90°C

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

Item	Symbol	Conditions	Min	Typ	Max	Unit
Input	Forward Voltage	IF = 10mA	— (1.0)	1.1 (1.15)	1.4 (1.3)	V
	Reverse Current	VR = 5V	—	—	20 (10)	μA
Output	Dark Current	VCE = 24V IF = 0	—	—	100	nA
	Collector Current	IF = 20mA VCE = 5V	0.5	2.0	—	mA
	C-E Saturation Voltage	IF = 10 (20) mA IC = 0.25 (1) mA	—	— (0.1)	0.3 (0.4)	V
Switching Speed	Rise Time	VCC = 10V IC = 2mA	—	5 (6)	—	μS
	Fall Time	RL = 100Ω	—	5 (6)	—	μS

*() : OJ-1919

OJ-1709

Dimensions in mm (1mm = 0.0394inches)

Dimensions

Pinout (Bottom view)

Schematic

OJ-1919

Dimensions in mm (1mm = 0.0394inches)

Dimensions

Pinout (Bottom view)

Schematic

▶ See page 27 (OJ-1709), 26(OJ-1919) for typical performance curves.