AEDS9200OPTO INTERRUPTER



Features

- Non-contact switching.
- •For direct PC board or dual-in-line socket mounting.
- •Fast switching speed.

Application

- Scanner
- •Printer
- •FAX machine
- •Counter

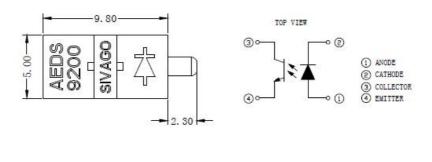
Description

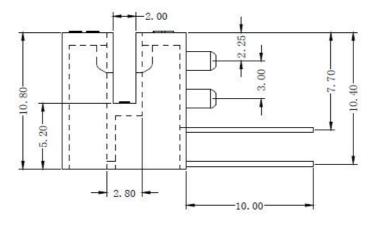
The AEDS9200 series consist of Gallium Arsenide infrared emitting diode and a NPN sillicon phototransistor mounted in a black plastic housing. Phototransistor switching takes place whenever an opaque object passes through the slot. These series are designed for direct soldering into PC board or mounting in standard dual-in-line socket.

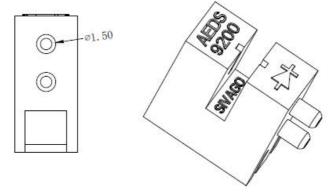


OPTO INTERRUPTER DATASHEET

PACKAGE DIMENSIONS







NOTES:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 0.25 mm(.010") unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.

Part No.: AEDS9200 DATA SHEET 2



OPTO INTERRUPTER DATASHEET

ABSOLUTE MAXIMUM RATINGS AT TA=25°C

PARAMETER	MAXIMUM RATING	UNIT	
IR Diode Continuous Forward Current	50	mA	
IR Diode Reverse Voltage	5	V	
Transistor Collector Currant	20	mA	
Transistor Power Dissipation	100	mW	
IR Diode Peak Power Currant (Pulse Wide = 1μS, 300 pps)	3	A	
Diode Power Dissipation	175	mW	
Phototransistor Collector-Emitter Voltage	30	V	
Phototransistor Emitter-Collector Voltage	5	V	
Operating Temperature Range	-40°C to +85°C		
Storage Temperature Range	-50°C to + 100°C		

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OPTO INTERRUPTER DATASHEET

ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
INPUT LED						
Forward Voltage	VF		1.2	1.35	V	I _F = 20mA
Reverse Current	IR			100	μΑ	VR=5V
OUTPUT PHOTOTRANSISTOR						
Collector-Emitter Breakdown Voltage	V(BR)CEO	30			V	IC=1mA
Emitter-Collector Breakdown Voltage	V(BR)CEO	5			V	IE=0.1mA
Collector-Emitter Dark Current	ICEO			100	nA	VCE=10V
COUPLER						
Collector-Emitter Saturation Voltage	VCE(SAT)			0.4	V	IC=0.2mA IF=20mA
Current Transfer Ratio	Ic(on)	0.8			mA	VCE=5V IF=20mA

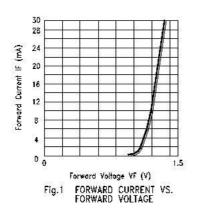
Part No.: AEDS9200	DATA SHEET	4	
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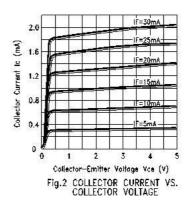


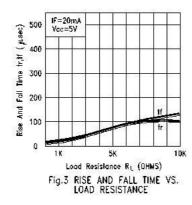
OPTO INTERRUPTER DATASHEET

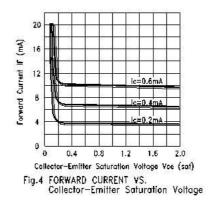
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

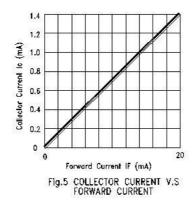
(25°C Ambient Temperature Unless Otherwise Noted)











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