MOC70T4 OPTO INTERRUPTER



Features

Non-contact switching.

•For direct PC board or dual-in-line socket mounting.

•Fast switching speed.

Application

Scanner

Printer

•FAX machine

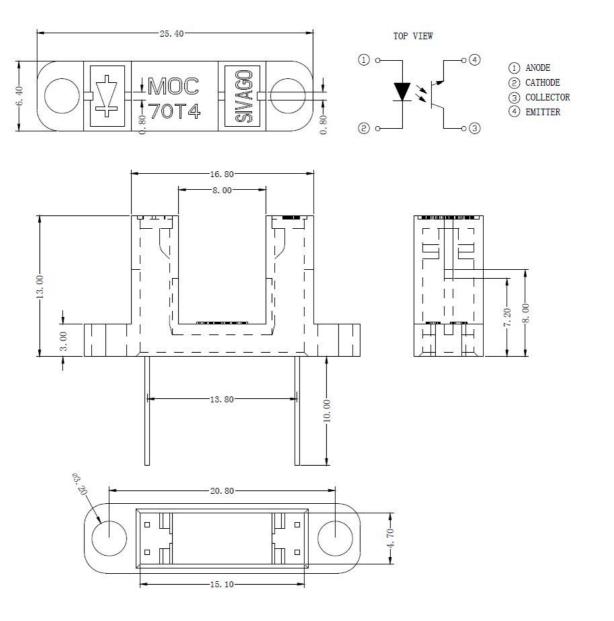
Counter

Description

The MOC70T4 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.



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. : MOC70T4 DATA SHEET



ABSOLUTE MAXIMUM RATINGS AT TA=25 $^\circ\!\mathbb{C}$

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 = 1μ S, 300 pps)	3	А		
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			



ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25 $^\circ\!\mathbb{C}$

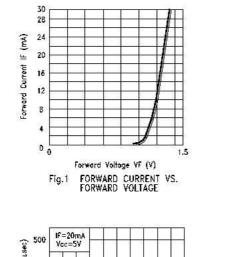
	18	/ *	8 - 17	9		
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
INPUT LED						
Forward Voltage	VF		1.2	1.35	V	$I_F = 20 mA$
Reverse Current	IR			100	μΑ	VR=5V
OUTPUT PHOTOTRANSISTOR					•	
Collector-Emitter Breakdown Voltage	V(BR)CEO	30			V	IC=1mA
Emitter-Collector Breakdown Voltage	V(BR)CEO	5			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

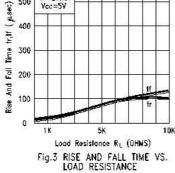
Part No. : MOC70T4 DATA SHEET



TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)





1.4 1.2

1.0 0.8 0.6 0.4 0.2 0

0

Collector Current to (mA)

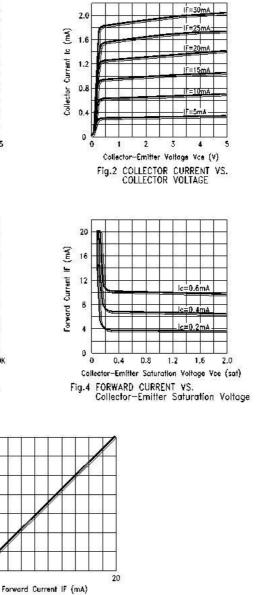


Fig.5 COLLECTOR CURRENT V.S FORWARD CURRENT

Part No. : MOC70T4 DATA SHEET

Notes

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