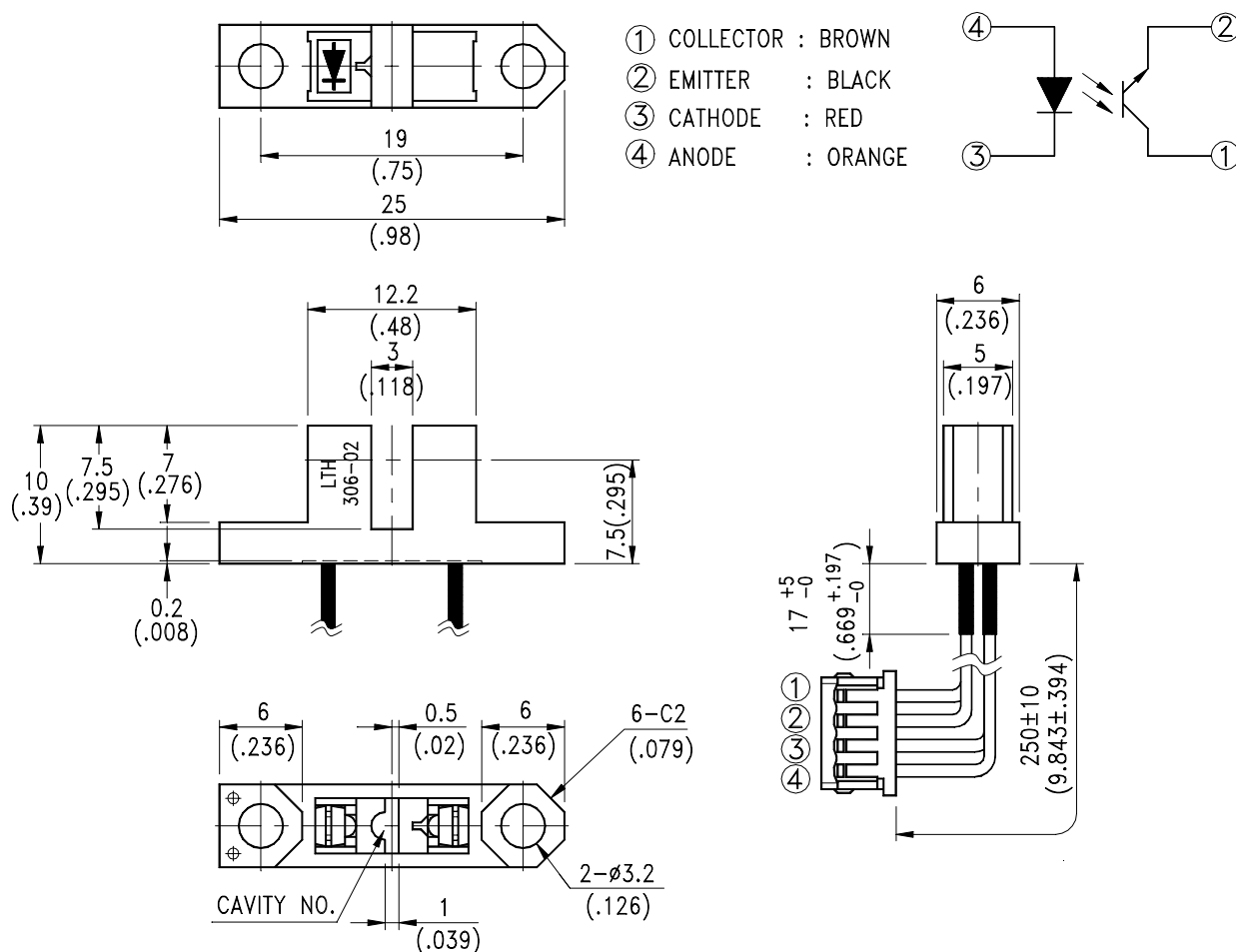


FEATURES

- * NON-CONTACT SWITCHING.
- * FOR DIRECT PC BOARD OR DUAL-IN-LINE SOCKET MOUNTING.
- * FAST SWITCHING SPEED.

PACKAGE DIMENSIONS



NOTES:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}(.010")$ unless otherwise noted.

ABSOLUTE MAXIMUM RATINGS AT TA=25

PARAMETER	MAXIMUM RATING	UNIT
IR Diode Continuous Forward Current	50	mA
IR Diode Reverse Voltage	5	V
Transistor Collector Current	20	mA
Transistor Power Dissipation	75	mW
IR Diode Peak Forward Current (Pulse Wide = 10 μ S, 300 pps)	1	A
Diode Power Dissipation	60	mW
Phototransistor Collector-Emitter Voltage	30	V
Phototransistor Emitter-Collector Voltage	5	V
Operating Temperature Range	-25 to + 85	
Storage Temperature Range	-55 to + 100	
Lead Soldering Temperature [1.6mm (.063") Form Case]	260 for 5 Seconds	

ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
INPUT DIODE						
Forward Voltage	VF		1.2	1.6	V	IF = 20mA
Reverse Current	IR			100	μ A	VR=5V
OUTPUT PHOTOTRANSISTOR						
Collector-Emitter Breakdown Voltage	V(BR)CE O	30			V	IC=1mA
Emitter-Collector Breakdown Voltage	V(BR)EC O	5			V	IE=100 μ A
Collector-Emitter Dark Current	ICEO			100	nA	VCE=10V IF=0
COUPLER						
Collector-Emitter Saturation Voltage	VCE(SAT)			0.4	V	IC=0.45mA IF=20mA
On State Collector Current	Ic(ON)	0.5	1.2		mA	VCE=5V IF=20mA
Rise Time	Tr		7		μ S	Ic= 1mA RL= 1K Ω V= V
Full Time	Tf		14			

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25 Ambient Temperature Unless Otherwise Noted)

Fig.1 Power Dissipation vs. Ambient Temperature

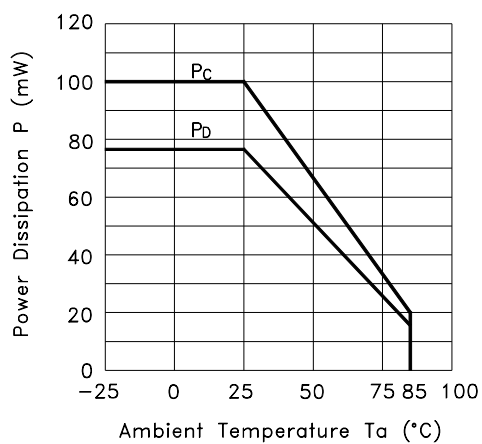


Fig.2 Forward Current vs. Forward Voltage

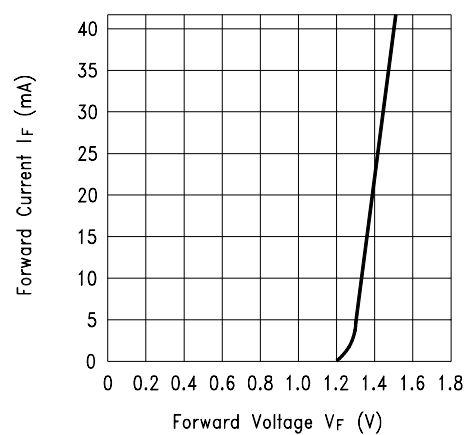


Fig.3 Collector Current vs. Collector-emitter Voltage

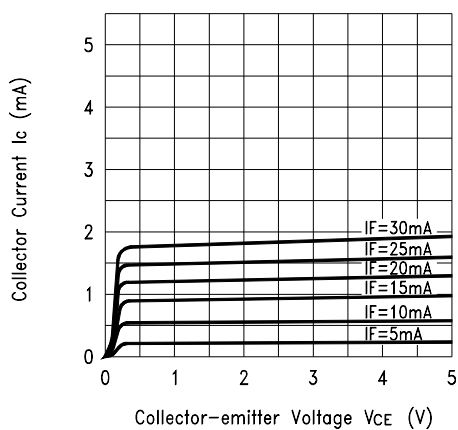
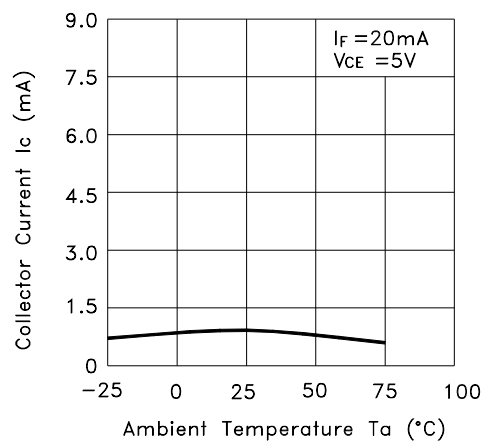


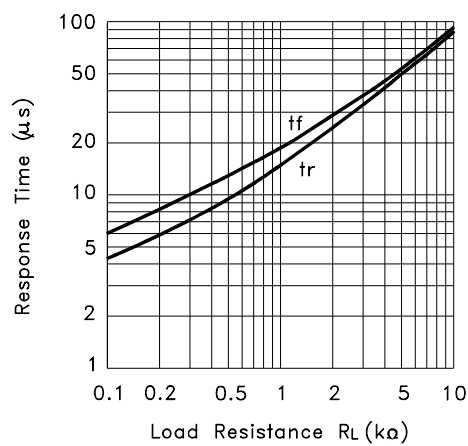
Fig.4 Collector Current vs. Ambient Temperature



TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25 Ambient Temperature Unless Otherwise Noted)

Fig.5 Response Time vs. Load Resistance



Test Circuit for Response Time

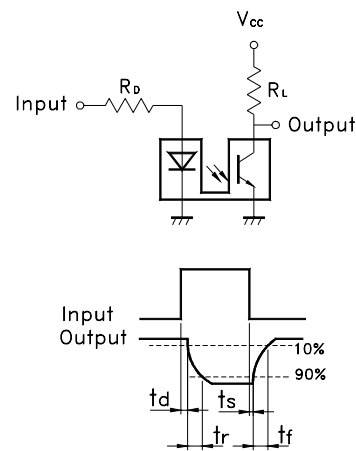


Fig.6 Collector-emitter Saturation Voltage vs. Ambient Temperature

