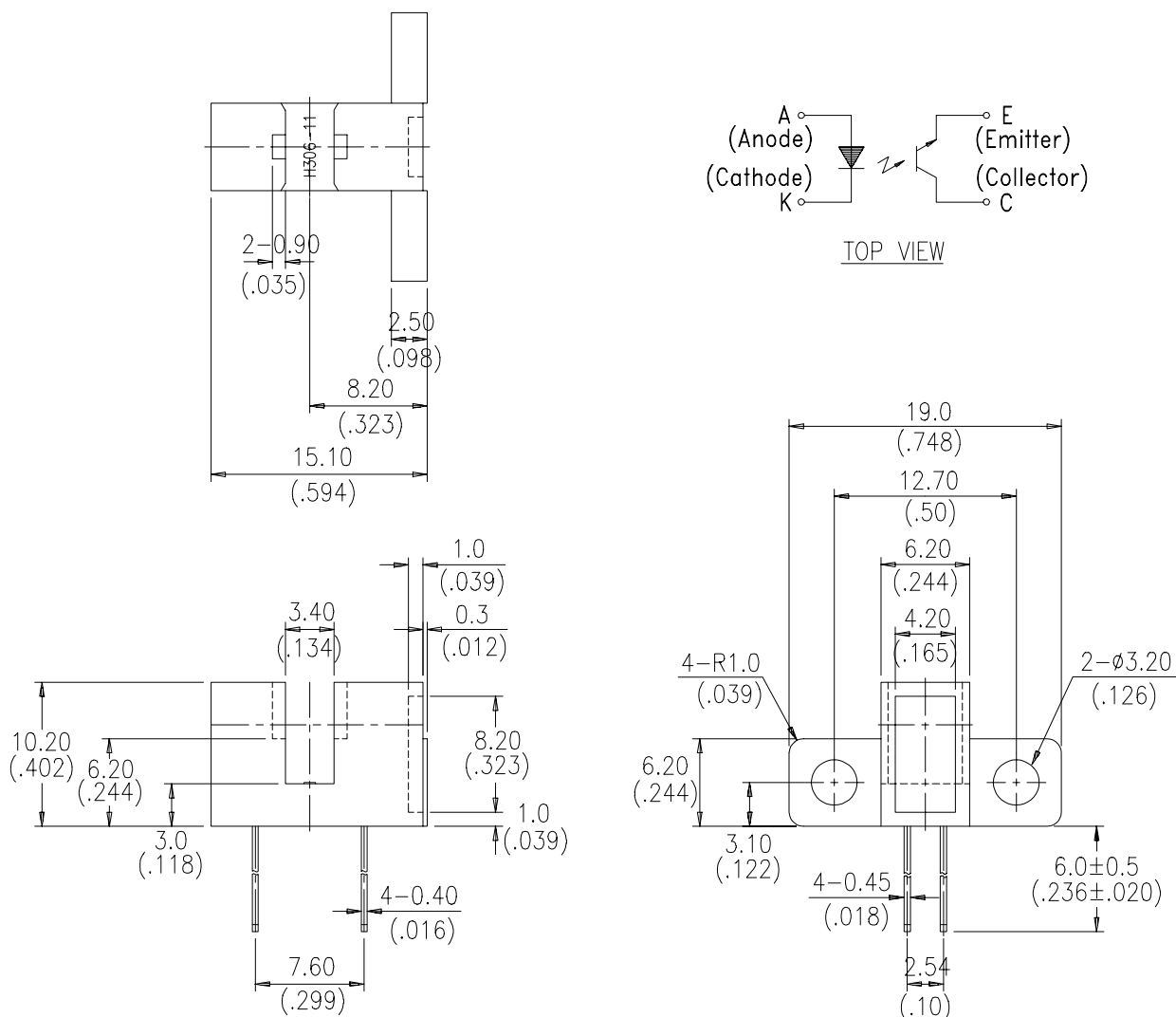


FEATURES

- * 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.



LITE-ON TECHNOLOGY CORPORATION

Property of LITON Only

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	75	mW	
	IR Diode Peak Power Currant (Pulse Wide = 1 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°C to + 85°C		
	Storage Temperature Range	-55°C to + 100°C		
	Lead Soldering Temperature [1.6mm(.063") From Body]	260°C for 5 Seconds		



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ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25°C

	PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION	
	INPUT LED							
	Forward Voltage	V _F		1.2	1.6	V	I _F = 20mA	
	Reverse Current	I _R			100	μA	V _R =5V	
	OUTPUT PHOTOTRANSISTOR							
	Collector-Emitter Breakdown Voltage	V(BR) _{CEO}	30			V	I _C =1mA	
	Emitter-Collector Breakdown Voltage	V(BR) _{CEO}	5			V	I _E =0.1mA	
	Collector-Emitter Dark Current	I _{CEO}			100	nA	V _{CE} =10V	
	COUPLER							
	Collector-Emitter Saturation Voltage	V _{CE(SAT)}			0.4	V	I _C =0.2mA I _F =20mA	
	On State Collector Current	I _{C(ON)}	1		28	mA	V _{CE} =5V I _F =20mA	
	Rise Time	T _r		4		μS	I _C =1mA R _C =1KΩ	
	Fall Time	T _r		12				

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

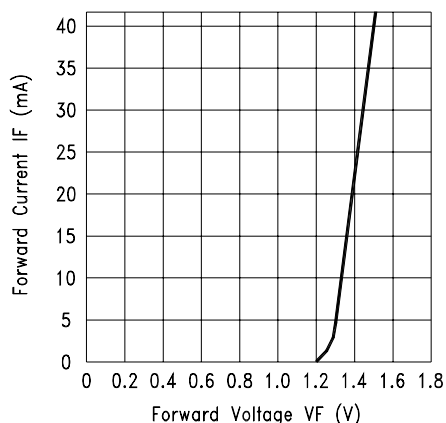


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

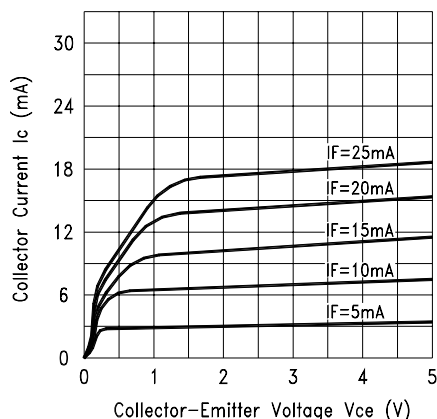


Fig.2 COLLECTOR CURRENT VS. COLLECTOR VOLTAGE

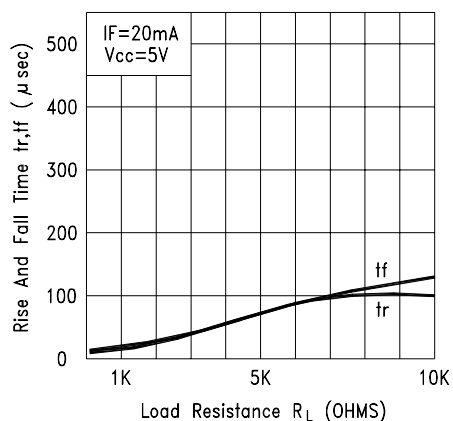


Fig.3 RISE AND FALL TIME VS. LOAD RESISTANCE

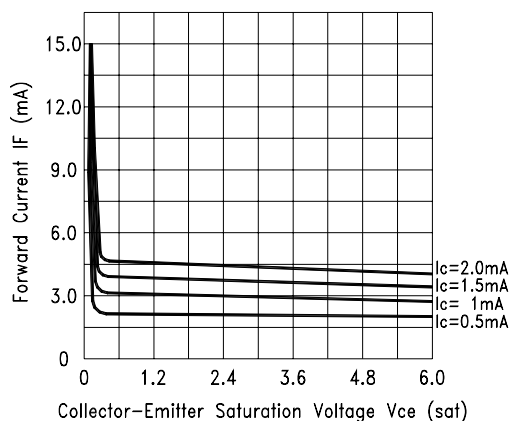


Fig.4 FORWARD CURRENT VS. COLLECTOR-EMITTER SATURATION VOLTAGE