

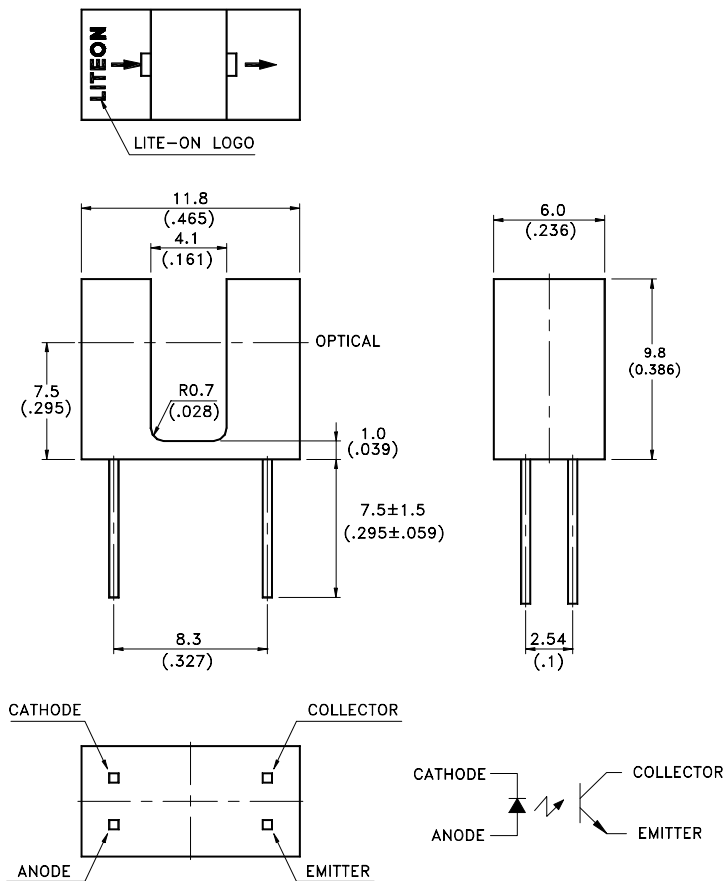
# LITEON LITE-ON TECHNOLOGY CORPORATION

Property of LITON Only

## 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.
3. Specification are subject to change without notice.

## 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	40	mA
Transistor Power Dissipation	100	mW (Note 1)
IR Diode Peak Forward Current (Pulse Wide = 10 $\mu$ S, 300 pps)	1	A
Diode Power Dissipation	75	mW (Note 1)
Phototransistor Collector-Emitter Voltage	30	V
Phototransistor Emitter-Collector Voltage	5	V
Operating Temperature Range	-35 to + 65	
Storage Temperature Range	-40 to + 100	
Lead Soldering Temperature [1.6mm(.063") From Case]	260 for 5 Seconds	

Note 1: Derate Linearly 1.33mW/ from 25

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## ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
<b>INPUT LED</b>						
Forward Voltage	VF		1.2	1.6	V	IF = 20mA
Reverse Current	IR			100	μ A	VR=5V
<b>OUTPUT PHOTOTRANSISTOR</b>						
Collector-Emitter Breakdown Voltage	V(BR)CEO	30			V	IC=1mA
Emitter-Collector Breakdown Voltage	V(BR)ECO	5			V	IE=100 μ A
Collector-Emitter Dark Current	ICEO			100	nA	VCE=10V
<b>COUPLER</b>						
Collector-Emitter Saturation Voltage	VCE(SAT)			0.4	V	IC=0.25mA IF=20mA
On State Collector Current	Ic(ON)	1.5			mA	VCE=5V IF=20mA

## TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25 Ambient Temperature Unless Otherwise Noted)

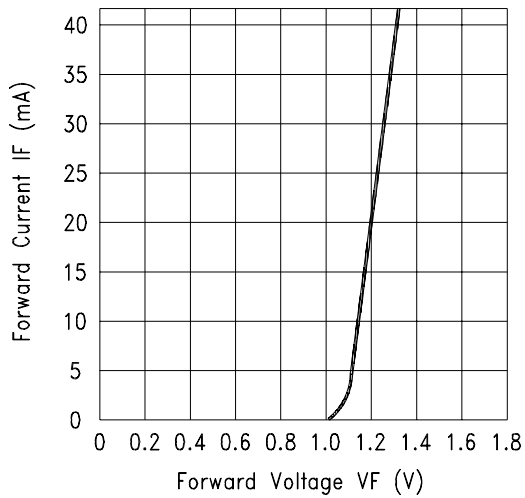


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

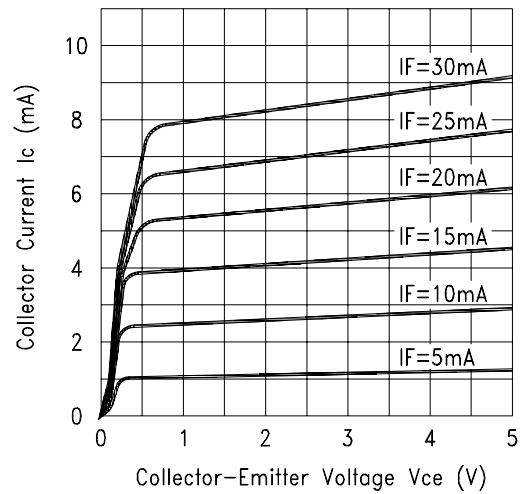


Fig.2 COLLECTOR CURRENT VS. COLLECTOR VOLTAGE

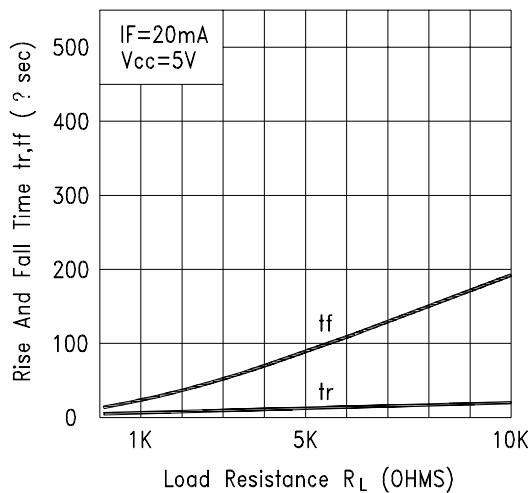


Fig.3 RISE AND FALL TIME VS. LOAD RESISTANCE

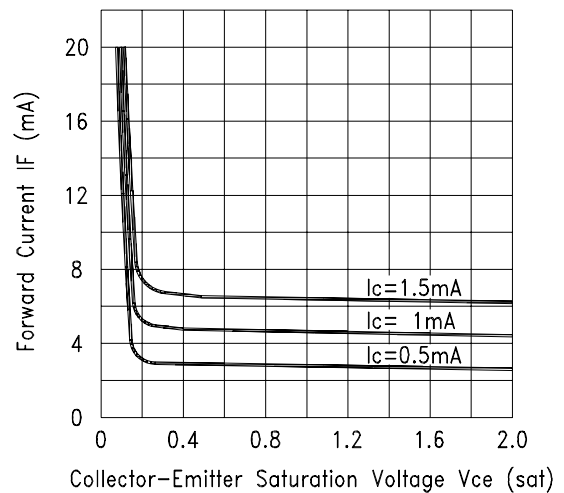


Fig.4 FORWARD CURRENT VS. Collector-Emitter Saturation Voltage