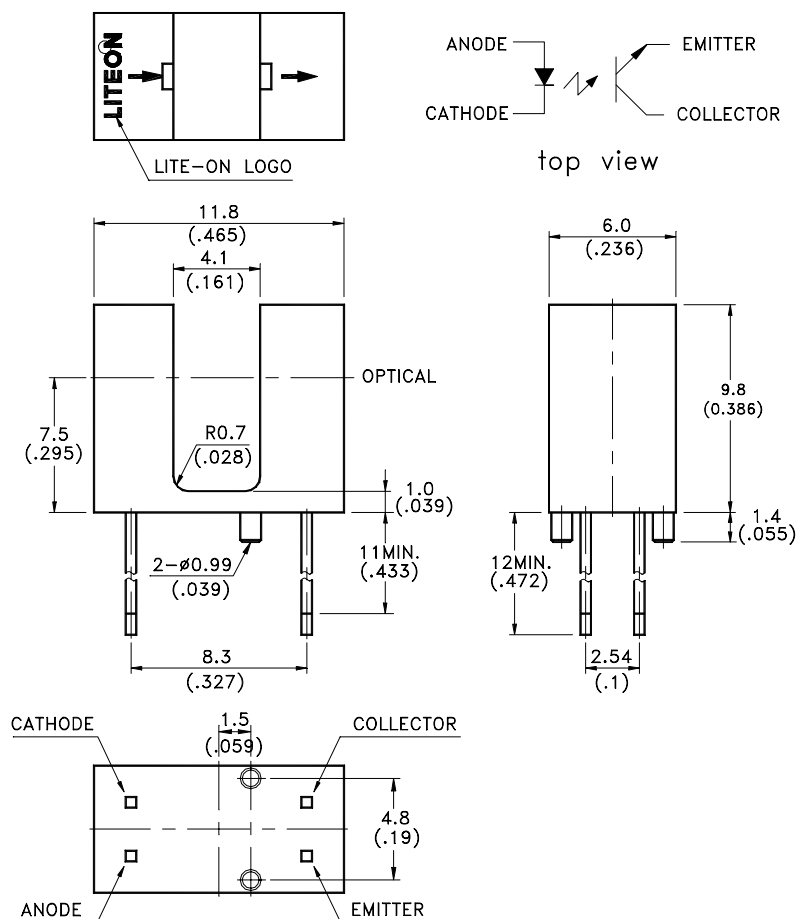


FEATURES

- * 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 Lite-On Only

ABSOLUTE MAXIMUM RATINGS AT T_A=25

PARAMETER	MAXIMUM RATING	UNIT
IR Diode Continuous Forward Current	60	mA
IR Diode Reverse Voltage	5	V
Transistor Collector Current	20	mA
Transistor Power Dissipation	100	mW
IR Diode Peak Forward Current (Pulse Wide = 10 μ S, 300 pps)	1	A
Diode Power Dissipation	75	mW
Phototransistor Collector-Emitter Voltage	30	V
Phototransistor Emitter-Collector Voltage	5	V
Operating Temperature Range	-25 to + 85	
Storage Temperature Range	-40 to + 100	
Lead Soldering Temperature [1.6mm(.063") From Body , Plastic Housing Exclude]	260 for 5 Seconds	



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ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25

PARAMETER		SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
INPUT LED							
Forward Voltage		V_F		1.2	1.6	V	$I_F = 20\text{mA}$
Reverse Current		I_R			100	μA	$V_R = 5\text{V}$
OUTPUT PHOTOTRANSISTOR							
Collector-Emitter Breakdown Voltage		$V_{(BR)CEO}$	30			V	$I_C = 1\text{mA}$
Emitter-Collector Breakdown Voltage		$V_{(BR)ECO}$	5			V	$I_E = 100\mu\text{A}$
Collector-Emitter Dark Current		I_{CEO}			100	nA	$V_{CE} = 10\text{V}$
COUPLER							
Collector-Emitter Saturation Voltage		$V_{CE(SAT)}$			0.4	V	$I_C = 70\mu\text{A}$ $I_F = 1.4\text{mA}$
On State Collector Current		$I_{C(ON)}$	70			μA	$V_{CE} = 3.3\text{V}$ $I_F = 1.4\text{mA}$
					10	mA	$V_{CE} = 5\text{V}$ $I_F = 20\text{mA}$
Response Time	Rise Time	t_r		3	15	μS	$V_{CE} = 5\text{V}, I_C = 2\text{mA}$ $R_L = 100\Omega$
	Fall Time	t_f		4	20		

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25 Ambient Temperature Unless Otherwise Noted)

Fig.1 Power Dissipation vs. Ambient Temperature

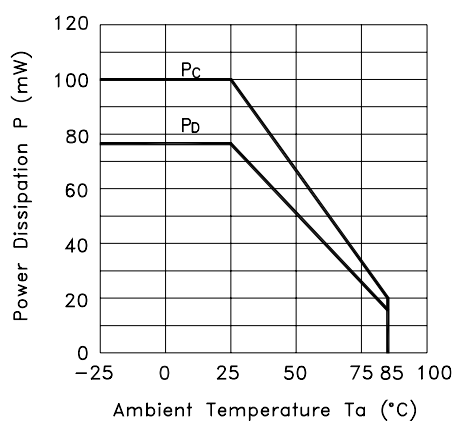


Fig.2 Forward Current vs. Forward Voltage

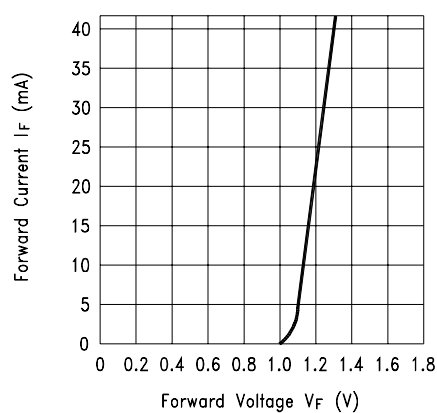


Fig.3 Collector Current vs. Collector-emitter Voltage

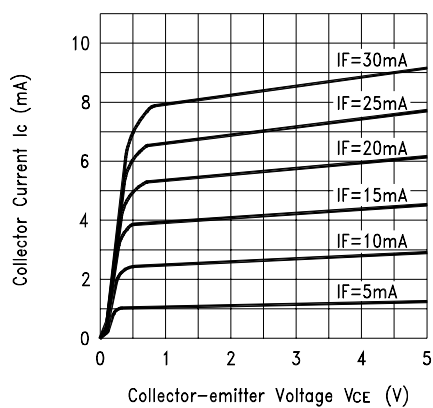
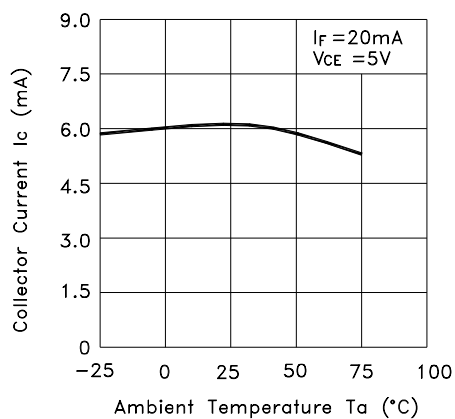


Fig.4 Collector Current vs. Ambient Temperature



TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25 Ambient Temperature Unless Otherwise Noted)

Fig.5 Collector-emitter Saturation Voltage vs. Ambient Temperature

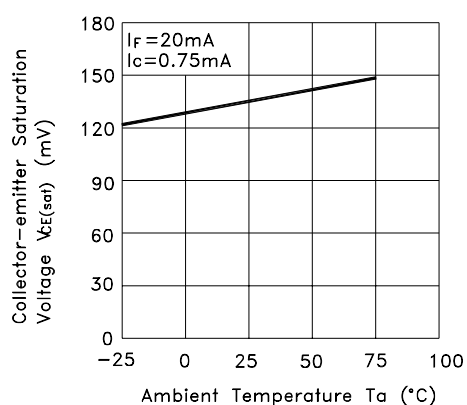
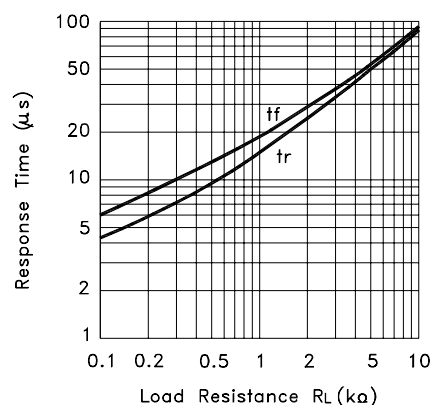


Fig.6 Response Time vs. Load Resistance



Test Circuit for Response Time

