



LITE-ON TECHNOLOGY CORPORATION

Property of Lite-On Only

ABSOLUTE MAXIMUM RATINGS AT TA=25°C

PARAMETER	MAXIMUM RATING	UNIT
INPUT LED		
Power Dissipation	75	mW
Peak Forward Current (300 pps , 10 μ S pulse)	1	A
Continuous Forward Current	50	mA
Reverse Voltage	5	V
OUTPUT PHOTOTRANSISTOR		
Power Dissipation	100	mW
Collector-Emitter Voltage	30	V
Emitter-Collector Voltage	5	V
Collector Current	20	mA
Operating Temperature Range	-25°C to + 85°C	
Storage Temperature Range	-40°C to + 100°C	



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ELECTRICAL OPTICAL CHARACTERISTICS AT $T_A=25^{\circ}\text{C}$

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 Dark Current	I_{CEO}			100	nA	$V_{CE}=10\text{V}$
COUPLER						
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$			0.4	V	$I_C=0.25\text{mA}$ $I_F=20\text{mA}$
On State Collector Current	$I_{C(ON)}$	1.0	1.2		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°C Ambient Temperature Unless Otherwise Noted)

Fig.1 Power Dissipation vs. Ambient Temperature

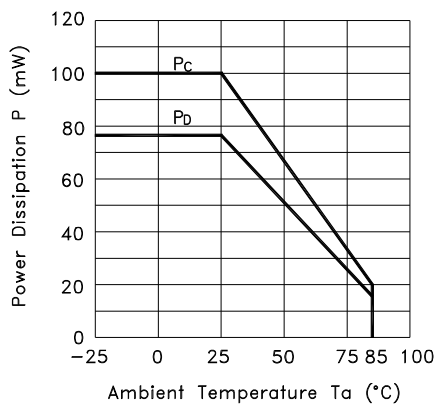


Fig.2 Forward Current vs. Forward Voltage

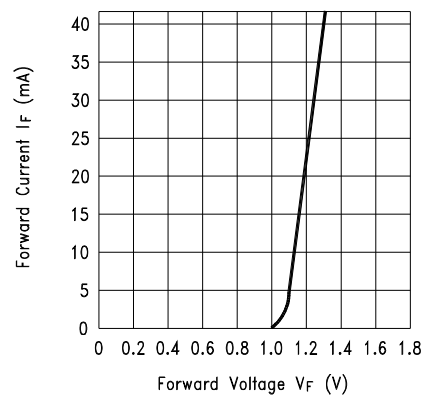


Fig.3 Collector Current vs. Collector-emitter Voltage

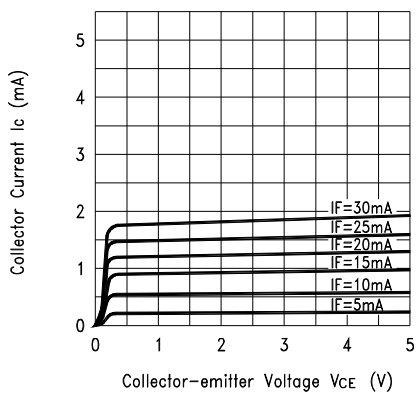
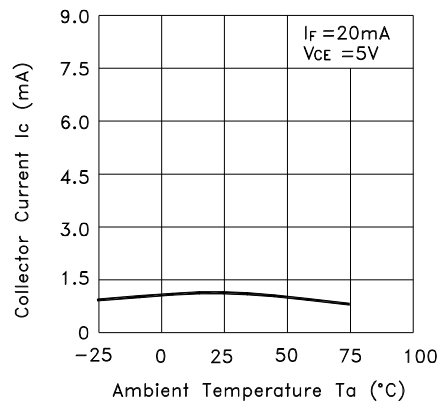


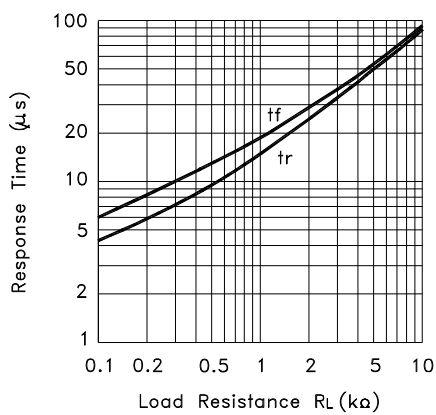
Fig.4 Collector Current vs. Ambient Temperature



TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

Fig.5 Response Time vs. Load Resistance



Test Circuit for Response Time

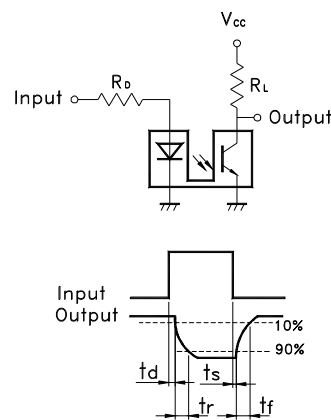


Fig.6 Collector-emitter Saturation Voltage vs. Ambient Temperature

