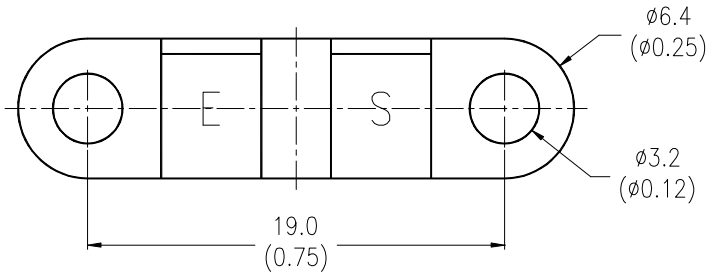
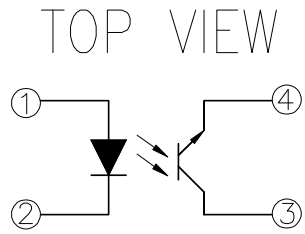
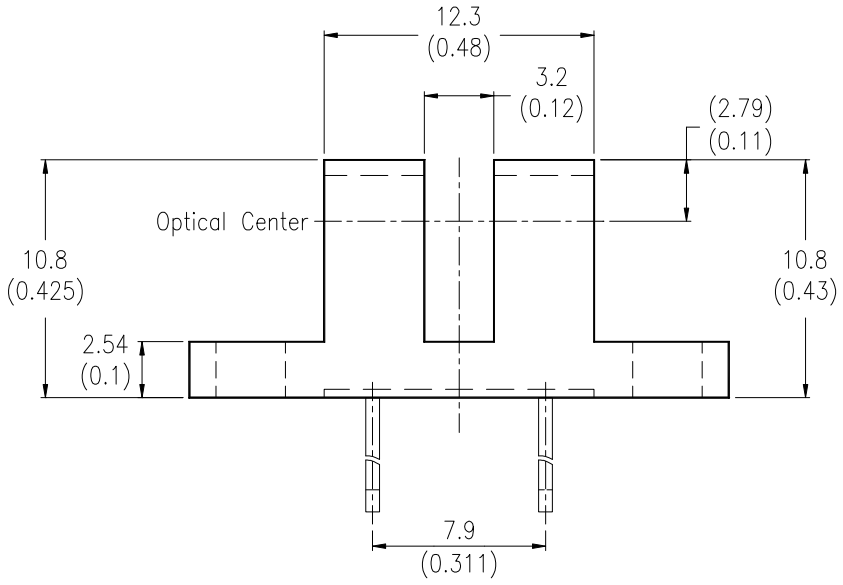
FEATURES

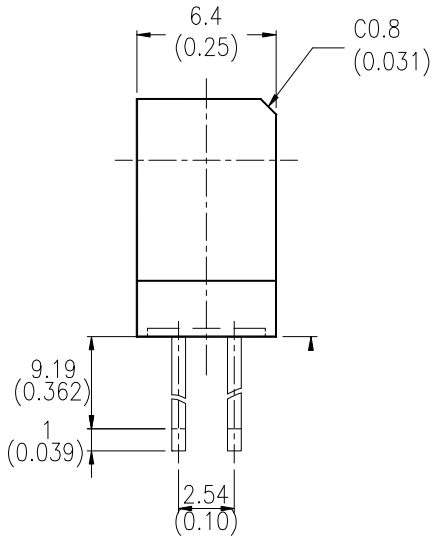
* NON-CONTCACT SWITCHING.

PACKAGE DIMENSIONS









NOTES:
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25mm(.010”) unless otherwise noted.

ABSOLUTE MAXIMUM RATINGS AT TA=25℃

PARAMETER	SYMBOL	MAXIMUM RATING	UNIT
INPUT LED			
Power Dissipation	P_D	75	mW
Continuous Forward Current	I_F	50	mA
Reverse Voltage	V_R	5	V
OUTPUT PHOTOTRANSISTOR			
Power Dissipation	P_C	100	mW
Collector-Emitter Voltage	V_{CEO}	30	V
Emitter-Collector Voltage	V_{ECO}	5	V
Collector Current	I_C	20	mA
Operating Temperature Range	T_{opr}	-25℃ to + 85℃	
Storage Temperature Range	T_{stg}	-40℃ to + 100℃	
Lead Soldering Temperature [1.6mm(.063") From Body , Plastic Housing Exclude]	T_S	260℃ for 5 Seconds	

ELECTRICAL OPTICAL CHARACTERISTICS AT T_A=25℃

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	μ A	V_R=5V
OUTPUT PHOTOTRANSISTOR							
Collector-Emitter Dark Current		I_{CEO}			100	nA	V_{CE}=10V
COUPLER							
Collector-Emitter Saturation Voltage		$V_{CE(SAT)}$			0.4	V	I_C=0.25mA I_F=20mA
On State Collector Current		$I_{C(ON)}$	0.5			mA	V_{CE}=5V I_F=20mA
Response Time	Rise Time	T_R		3	15	μ S	V_{CE}=5V, I_C=2mA R_L=100 Ω
	Fall Time	T_F		4	20		

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25℃ Ambient Temperature Unless Otherwise Noted)

Fig.1 Power Dissipation vs. Ambient Temperature

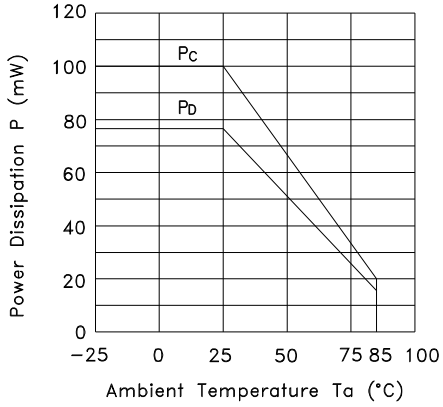


Fig.2 Forward Current vs. Forward Voltage

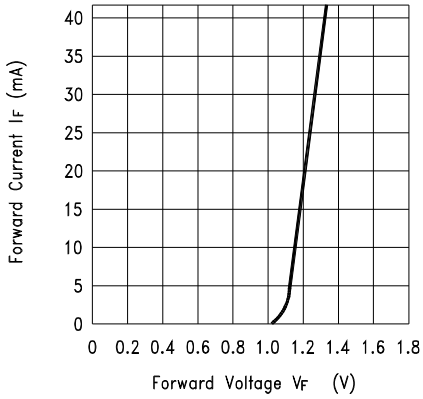


Fig.3 Cllector Current vs. Collector−emitter Voltage

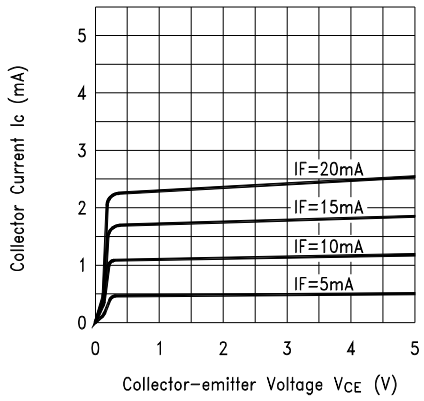
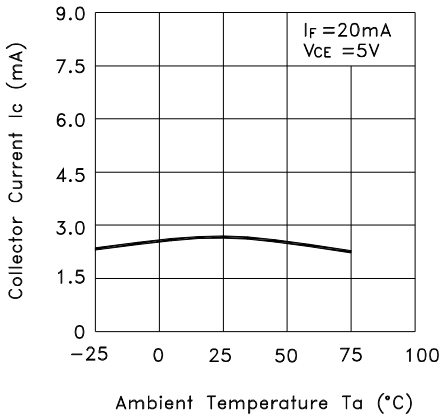


Fig.4 Collector Current vs. Ambient Temperature



TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25℃ Ambient Temperature Unless Otherwise Noted)

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

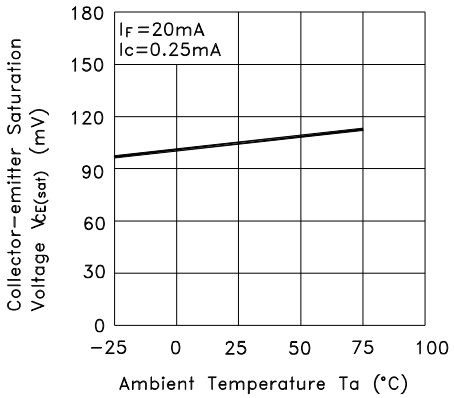
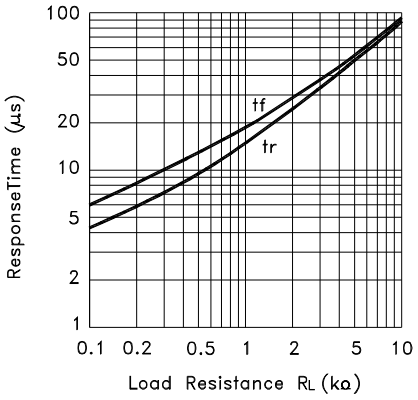


Fig.6 Response Time vs. Load Resistance



Test Circuit for Response Time