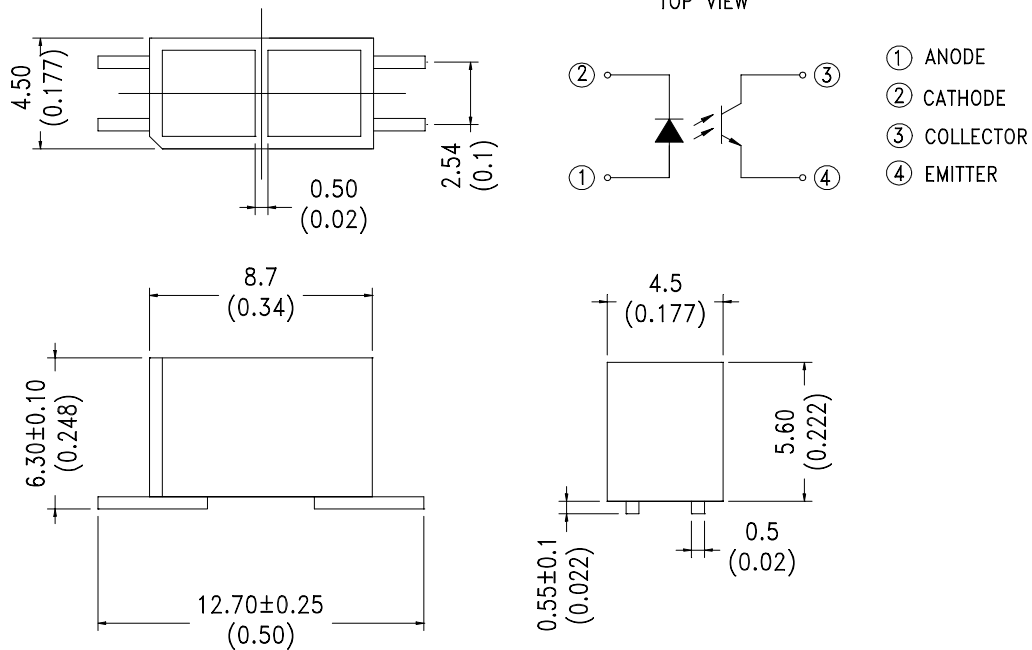


FEATURES

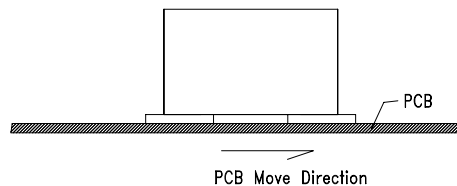
- * NON-CONTACT SWITCHING.
- * FAST SWITCHING SPEED.

PACKAGE DIMENSIONS

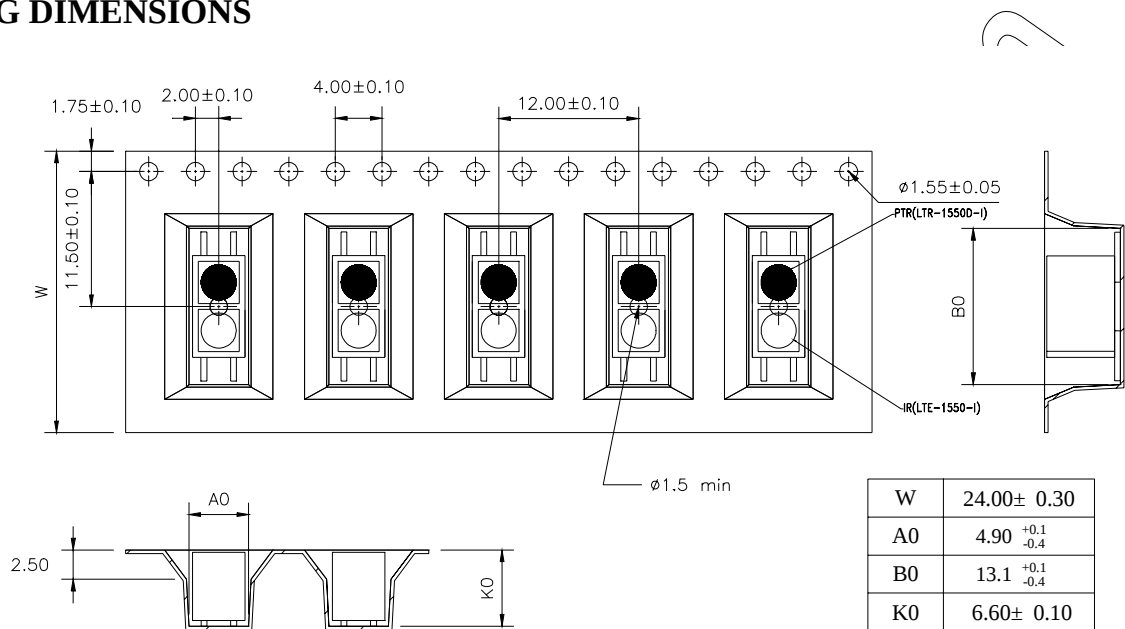


NOTES:

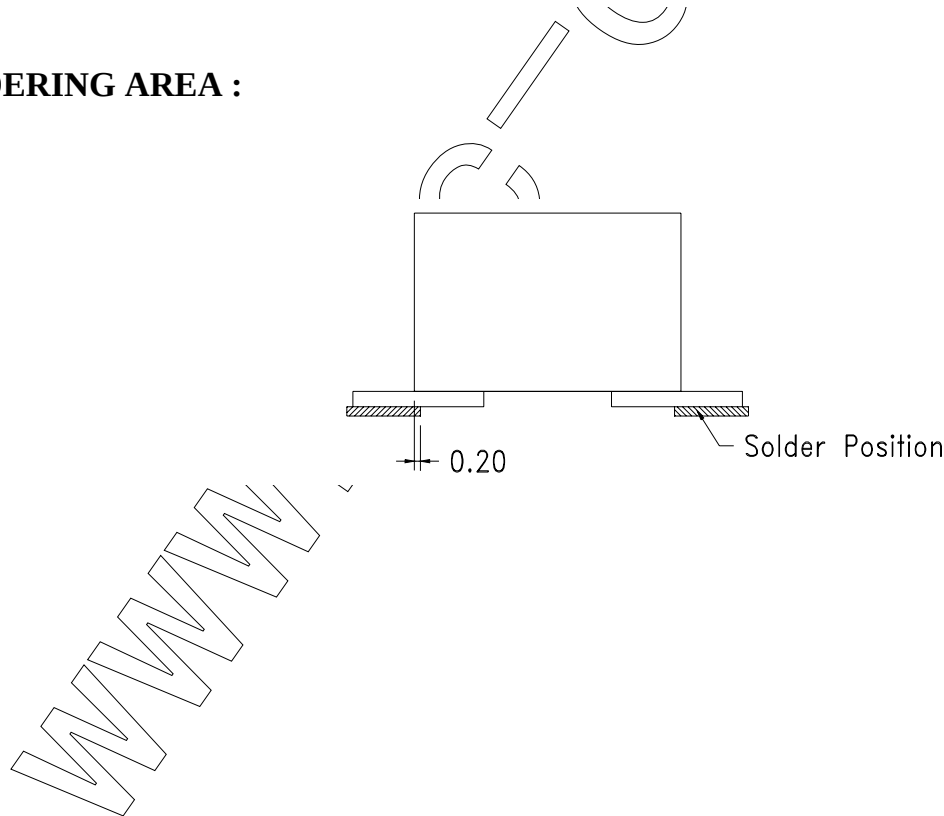
1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
3. Applicable to reflow soldering :
Preheat : 160 within 120 seconds
Reflow : 220 within 20 seconds
(Peak : 220)
4. Device put on PCB position for reflow as follow :



TAPING DIMENSIONS



SOLDERING AREA :



ABSOLUTE MAXIMUM RATINGS AT TA=25

PARAMETER	SYMBOL	MAXIMUM RATING	UNIT
INPUT DIODE			
Power Dissipation	P_D	90	mW
Peak Forward Current (300 pps , 10 μ S pulse)	I_{CP}	1	A
Continuous Forward Current	I_F	60	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") Form Case]	T_S	260 for 5 Seconds	

ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25

PARAMETER		SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
INPUT DIODE							
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	$I_C = 0.5\text{mA}$ $I_F = 20\text{mA}$
On State Collector Current	$I_{C(ON)}$	BIN A	750		1150	μA	$V_{CE} = 5\text{V}$ $I_F = 20\text{mA}$ $D = 3.5\text{ mm}$ (90% Reflective White Paper)
		BIN B	1090		1430		
		BIN C	1370		1770		
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

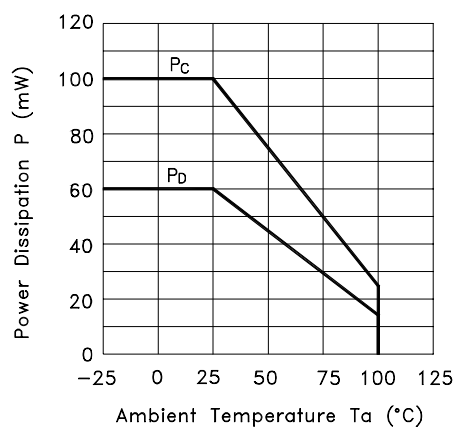


Fig.2 Forward Current vs. Forward Voltage

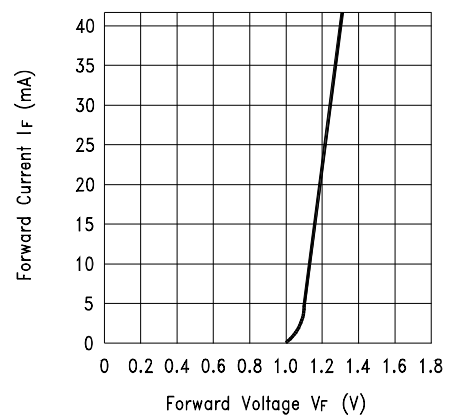


Fig.3 Collector Current vs. Forward Voltage

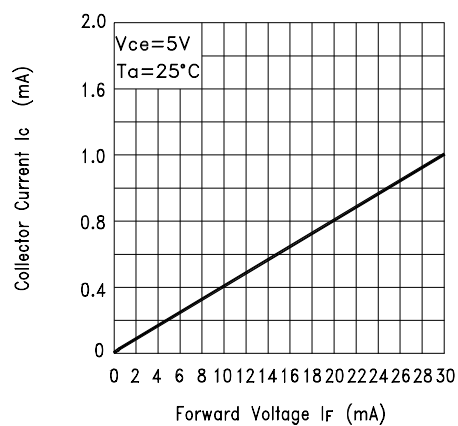
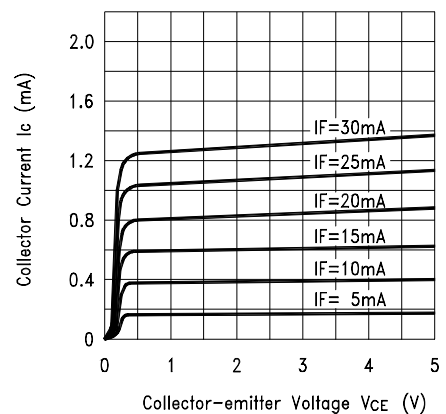


Fig.4 Collector Current vs. Collector-emitter Voltage



TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25 Ambient Temperature Unless Otherwise Noted)

Fig.5 Collector Current vs. Ambient Temperature

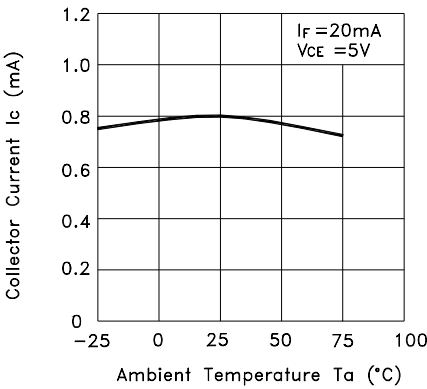


Fig.6 Collector-emitter Saturation Voltage vs. Ambient Temperature

