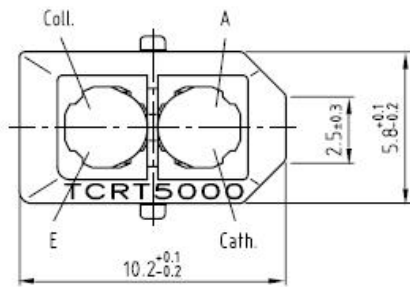
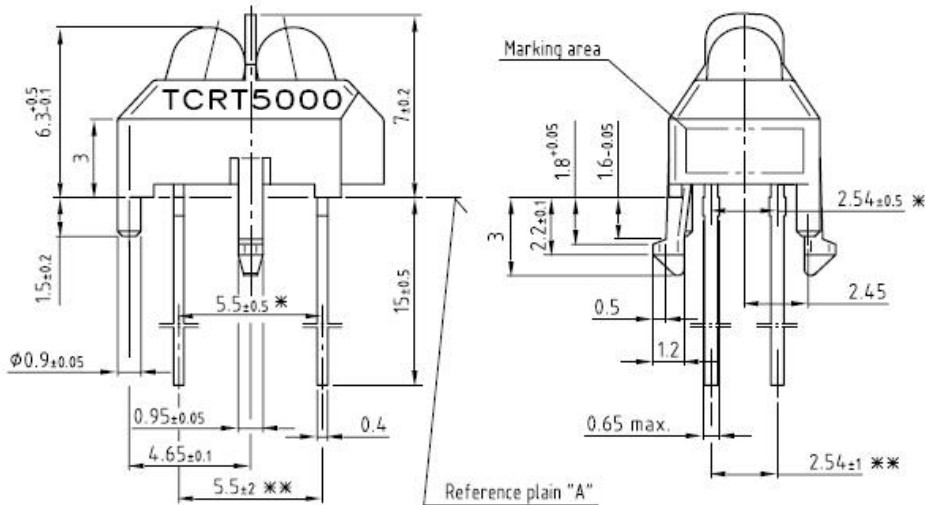


**FEATURES**

- \* NON-CONTACT SWITCHING.
- \* FOR DIRECT PC BOARD OR DUAL-IN-LINE SOCKET MOUNTING.
- \* FAST SWITCHING SPEED.

**PACKAGE DIMENSIONS**



weight: ca. 0.23g

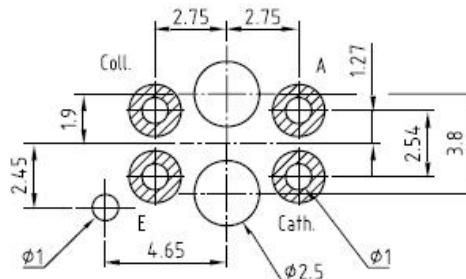
Drawing-No: 6.550-5146.01-4  
Issue: 4; 11.04.02  
95 11267

\* Tolerances related to reference plain "A"

\*\* Tolerances related on lead end



Footprint Top View



**NOTES:**

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25\text{mm}$  (.010") unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.

**ABSOLUTE MAXIMUM RATINGS AT TA=25°C**

PARAMETER	SYMBOL	MAXIMUM RATING	UNIT
<b>INPUT DIODE</b>			
Power Dissipation	P <sub>D</sub>	90	mW
Peak Forward Current ( 300 pps , 10 μ S pulse)	I <sub>CP</sub>	1	A
Continuous Forward Current	I <sub>F</sub>	60	mA
Reverse Voltage	V <sub>R</sub>	5	V
<b>OUTPUT PHOTOTRANSISTOR</b>			
Power Dissipation	P <sub>C</sub>	100	mW
Collector-Emitter Voltage	V <sub>CEO</sub>	30	V
Emitter-Collector Voltage	V <sub>ECO</sub>	5	V
Collector Current	I <sub>C</sub>	20	mA
Operating Temperature Range	T <sub>opr</sub>	-25°C to + 85°C	
Storage Temperature Range	T <sub>stg</sub>	-40°C to + 100°C	
Lead Soldering Temperature [ 1.6mm (.063”) Form Case ]	T <sub>S</sub>	260°C for 5 Seconds	

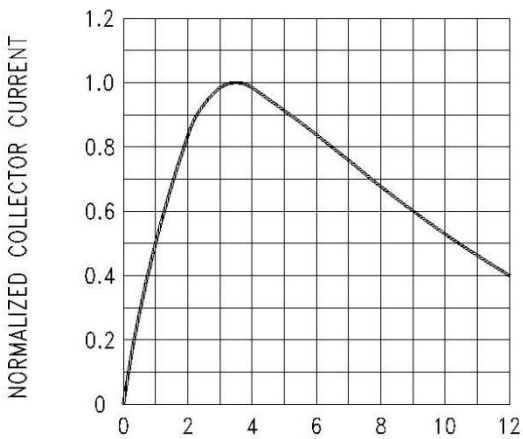
**OPTO INTERRUPTER  
DATASHEET**

**ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25°C**

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION	Bin No.
<b>INPUT DIODE</b>							
Forward Voltage	V <sub>F</sub>		1.2	1.6	V	I <sub>F</sub> = 20mA	
Reverse Current	I <sub>R</sub>			100	μA	V <sub>R</sub> =5V	
<b>OUTPUT PHOTOTRANSISTOR</b>							
Collector-Emitter Dark Current	I <sub>CEO</sub>			100	nA	V <sub>CE</sub> =10V	
<b>COUPLER</b>							
Collector-Emitter Saturation Voltage	V <sub>CE(SAT)</sub>			0.4	V	I <sub>C</sub> =0.2mA I <sub>F</sub> =20mA	
On State Collector Current	I <sub>C(ON)</sub>	200		400	uA	V <sub>CE</sub> =5V I <sub>F</sub> =20mA d=3.5mm <b>(90% Reflective White Paper )</b>	BIN A
		300		600			BIN B
		500		1000			BIN C
		800		1600			BIN D

**TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES**

(25°C Ambient Temperature Unless Otherwise Noted)



d-DISTANCE TO REFLECTIVE SURFACE-millimeter  
Fig.1 NORMALIZED COLLECTOR CURRENT VS. OBJECT DISTANCE

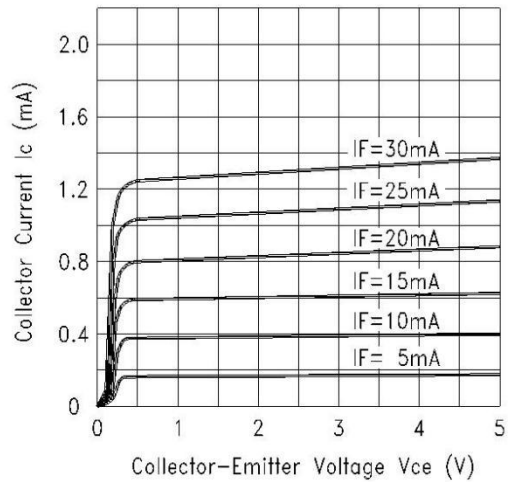


Fig.2 COLLECTOR CURRENT VS. COLLECTOR VOLTAGE

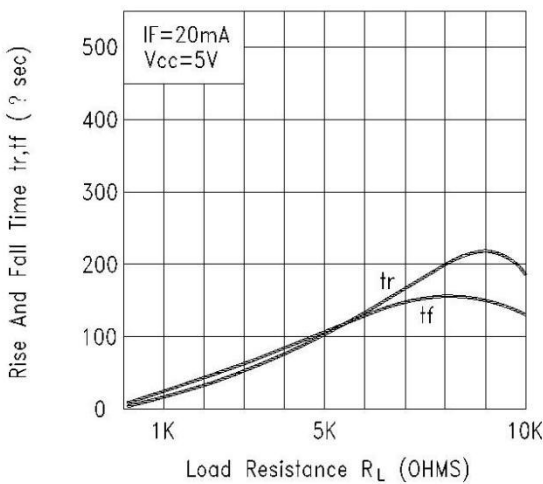


Fig.3 RISE AND FALL TIME VS. LOAD RESISTANCE

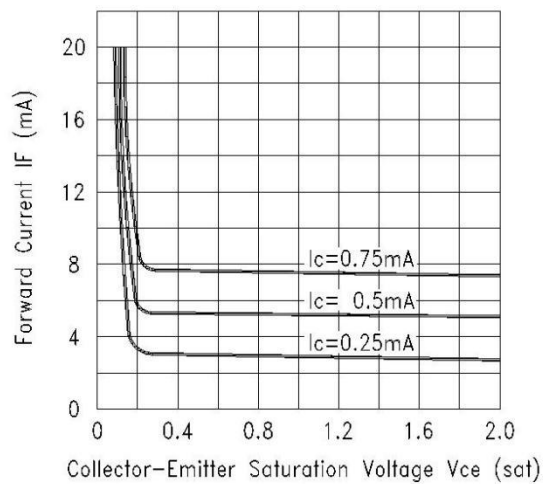


Fig.4 FORWARD CURRENT VS. Collector-Emitter Saturation Voltage