BASIC CHARACTERISTICS (T_{amb} = 25 °C, unless otherwise specified)						
PARAMETER	**TEST CONDITION**	**SYMBOL**	**MIN.**	**TYP.**	**MAX.**	**UNIT**
COUPLER						
Collector current	V_{CE} = 5 V, I_F = 15 mA	I_C	0.7	1.6		mA
Collector emitter saturation voltage	I_F = 15 mA, I_C = 0.2 mA	V_{CEsat}			0.4	V
INPUT (EMITTER)						
Forward voltage	I_F = 15 mA	V_F	1	1.2	1.4	V
Reverse current	V_R = 5 V	I_R			10	µA
Junction capacitance	V_R = 0 V, f = 1 MHz	C_j		25		pF
OUTPUT (DETECTOR)						
Collector emitter voltage I_C	I_C = 1 mA	V_{CEO}	20			V
Emitter collector voltage	I_E = 100 µA	V_{ECO}	7			V
Collector dark current	V_{CE} = 25 V, I_F = 0 A, E = 0 lx	I_{CEO}		1	100	nA
SWITCHING CHARACTERISTICS						
Rise time	I_C = 0.7 mA, V_{CE} = 5 V, R_L = 100 Ω (see figure 3)	t_r		9	150	µs
Fall time	I_C = 0.7 mA, V_{CE} = 5 V, R_L = 100 Ω (see figure 3)	t_f		16	150	µs

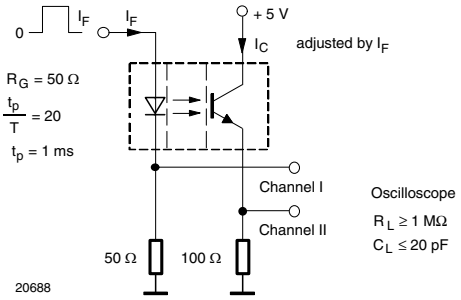

Fig. 3 - Test Circuit for t_r and t_f

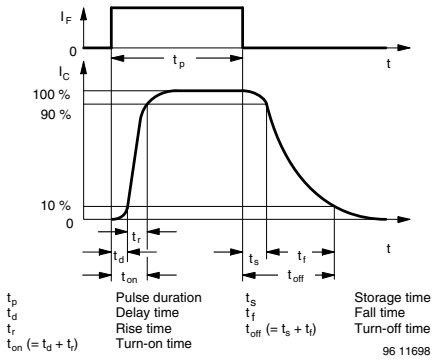

Fig. 4 - Switching Times

BASIC CHARACTERISTICS (T_{amb} = 25 °C, unless otherwise specified)

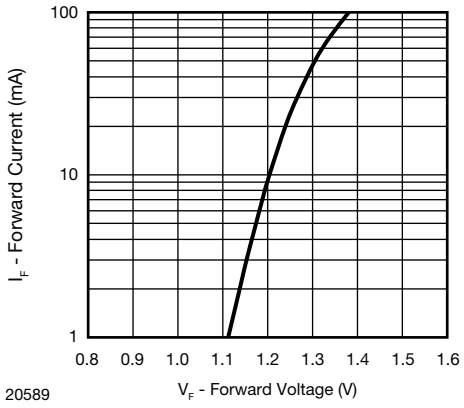

Fig. 5 - Forward Current vs. Forward Voltage

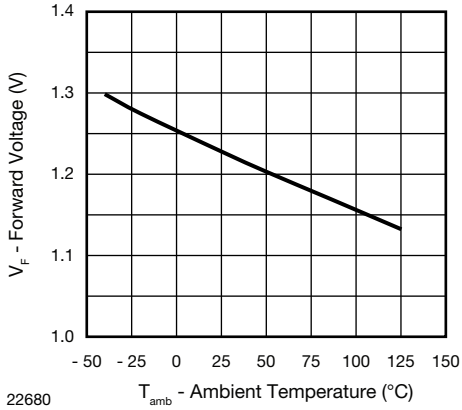

Fig. 6 - Forward Voltage vs. Ambient Temperature

For technical questions, contact: sensorstechsupport@vishay.com

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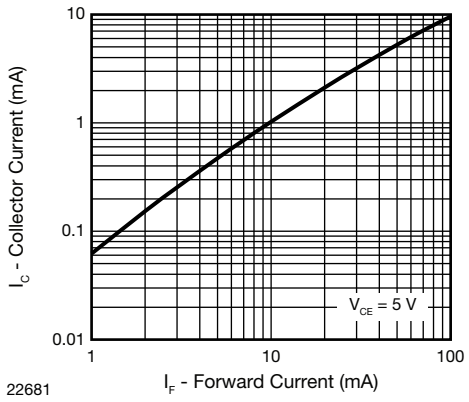

Fig. 7 - Collector Current vs. Forward Current

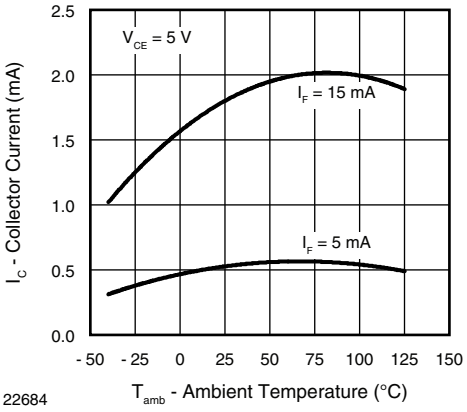

Fig. 10 - Collector Current vs. Ambient Temperature

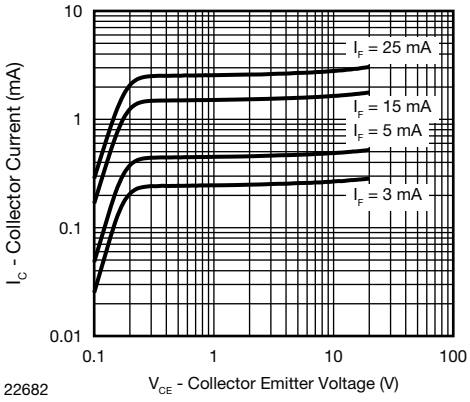

Fig. 8 - Collector Current vs. Collector Emitter Voltage

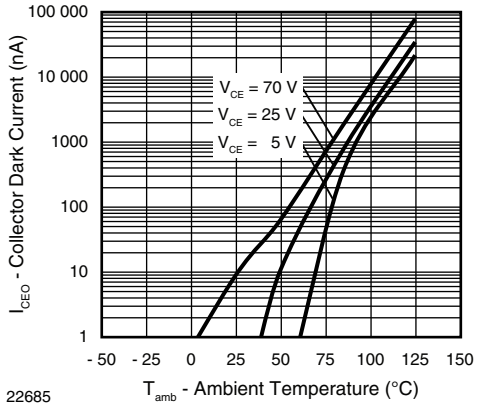

Fig. 11 - Collector Dark Current vs. Ambient Temperature

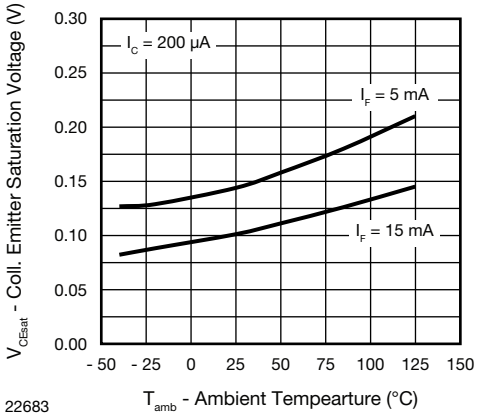

Fig. 9 - Collector Emitter Saturation Voltage vs. Ambient Temperature

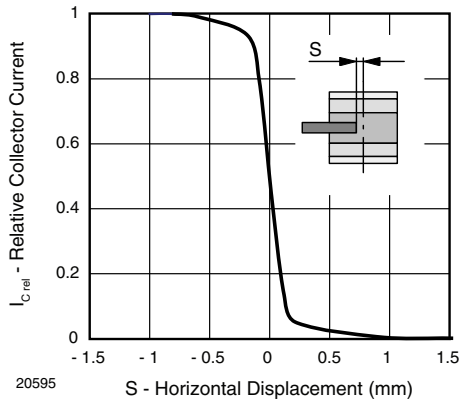

Fig. 12 - Relative Collector Current vs. Horizontal Displacement

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