

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

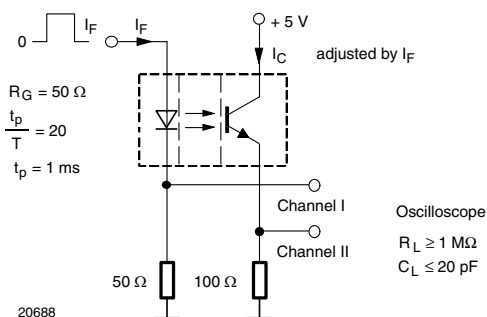
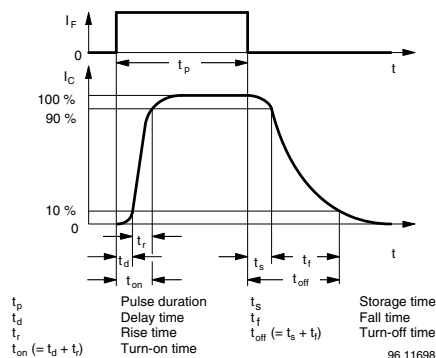

Fig. 3 - Test Circuit for t_r and t_f


Fig. 4 - Switching Times

BASIC CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)

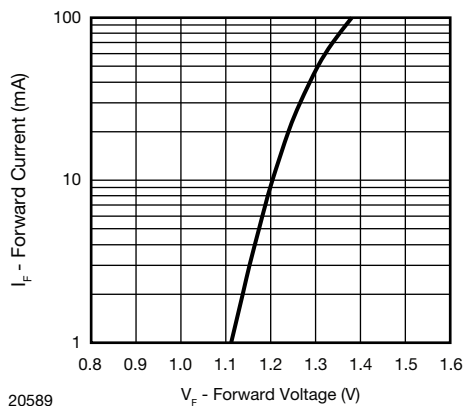


Fig. 5 - Forward Current vs. Forward Voltage

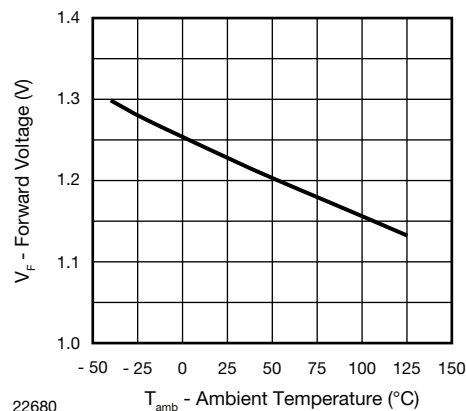


Fig. 6 - Forward Voltage vs. Ambient Temperature

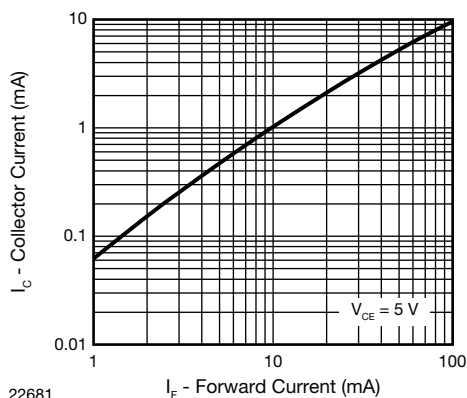


Fig. 7 - Collector Current vs. Forward Current

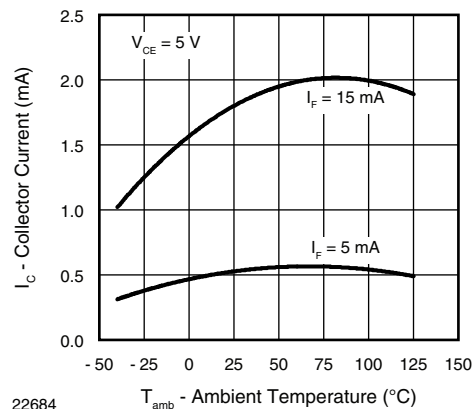


Fig. 10 - Collector Current vs. Ambient Temperature

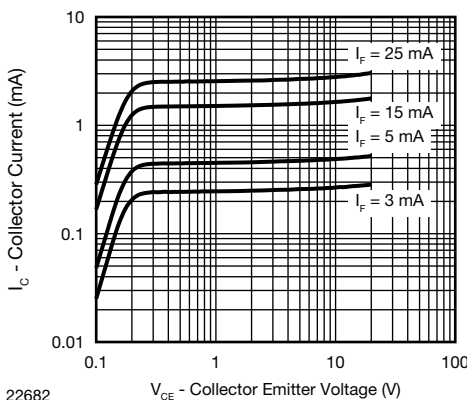


Fig. 8 - Collector Current vs. Collector Emitter Voltage

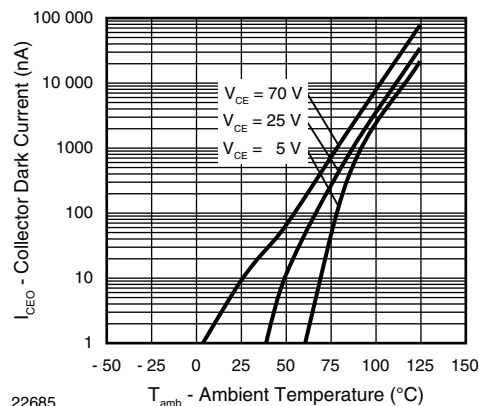


Fig. 11 - Collector Dark Current vs. Ambient Temperature

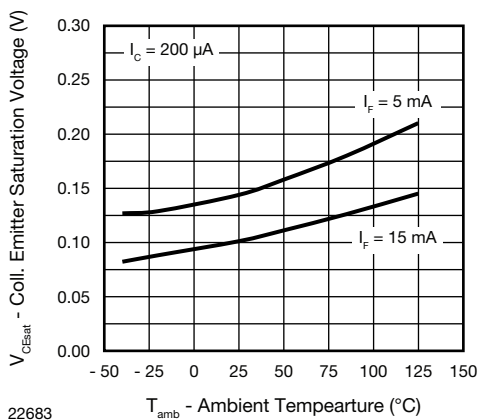


Fig. 9 - Collector Emitter Saturation Voltage vs. Ambient Temperature

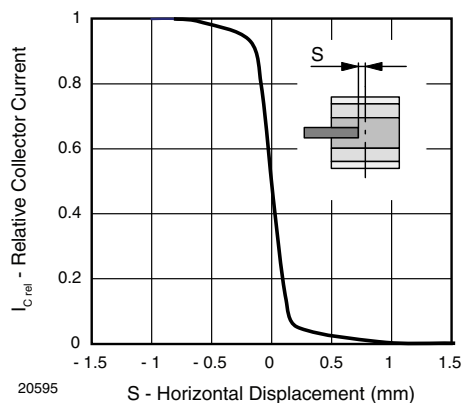


Fig. 12 - Relative Collector Current vs. Horizontal Displacement