| BASIC CHARACTERISTICS (1) | | | | | | | |
|---|---|---|---|---|---|---|---|
| **PARAMETER** | **TEST CONDITION** | **PART** | **SYMBOL** | **MIN.** | **TYP.** | **MAX.** | **UNIT** |
| **INPUT (EMITTER)** | | | | | | | |
| Forward voltage | $I_F$ = 60 mA | | $V_F$ | | 1.25 | 1.6 | V |
| Junction capacitance | $V_R$ = 0 V, f = 1 MHz | | $C_j$ | | 50 | | pF |
| **OUTPUT (DETECTOR)** | | | | | | | |
| Collector emitter voltage | $I_C$ = 1 mA | | $V_{CEO}$ | 70 | | | V |
| Emitter collector voltage | $I_E$ = 10 µA | | $V_{ECO}$ | 7 | | | V |
| Collector dark current | $V_{CE}$ = 25 V, $I_F$ = 0 A, E = 0 lx | | $I_{CEO}$ | | | 100 | nA |
| **SWITCHING CHARACTERISTICS** | | | | | | | |
| Turn-on time | $I_C$ = 2 mA, $V_S$ = 5 V, $R_L$ = 100 Ω (see figure 2) | | $t_{on}$ | | 10 | | µs |
| Turn-off time | $I_C$ = 2 mA, $V_S$ = 5 V, $R_L$ = 100 Ω (see figure 2) | | $t_{off}$ | | 8 | | µs |

**Note**

(1) $T_{amb}$ = 25 °C, unless otherwise specified

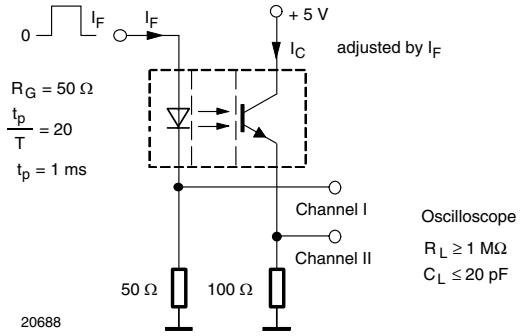


Fig. 2 - Test Circuit for $t_{on}$ and $t_{off}$

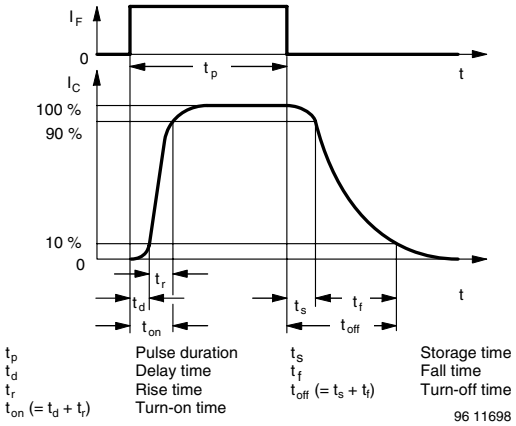


Fig. 3 - Switching Times

## BASIC CHARACTERISTICS

$T_{amb}$ = 25 °C, unless otherwise specified

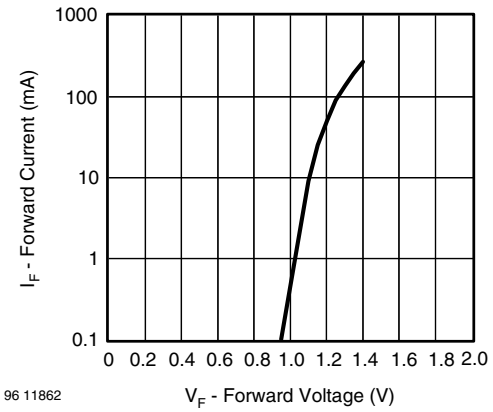


Fig. 4 - Forward Current vs. Forward Voltage

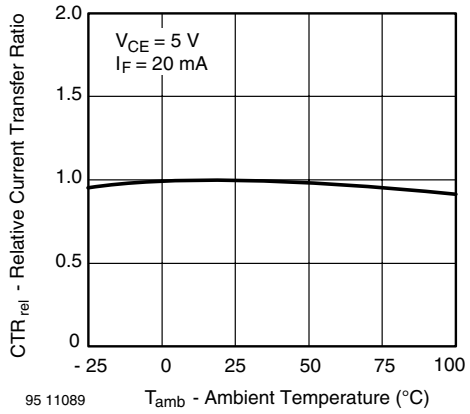


Fig. 5 - Relative Current Transfer Ratio vs. Ambient Temperature

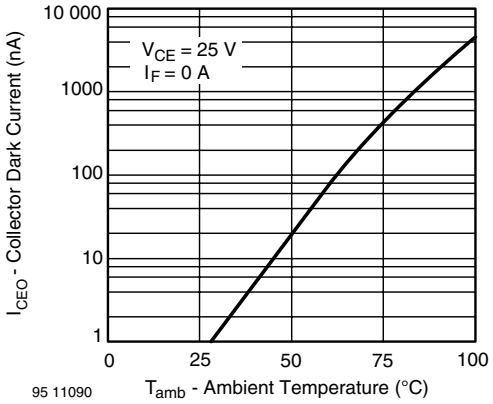


Fig. 6 - Collector Dark Current vs. Ambient Temperature

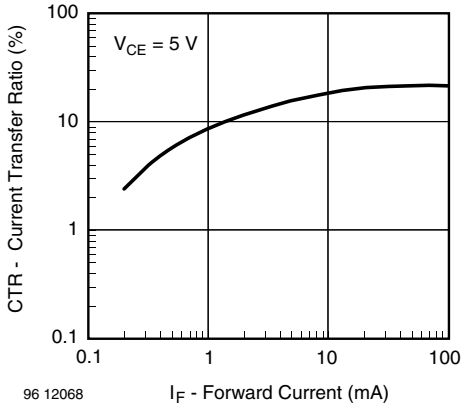


Fig. 9 - Current Transfer Ratio vs. Forward Current

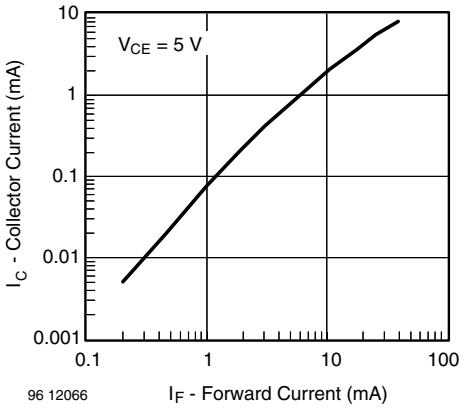


Fig. 7 - Collector Current vs. Forward Current

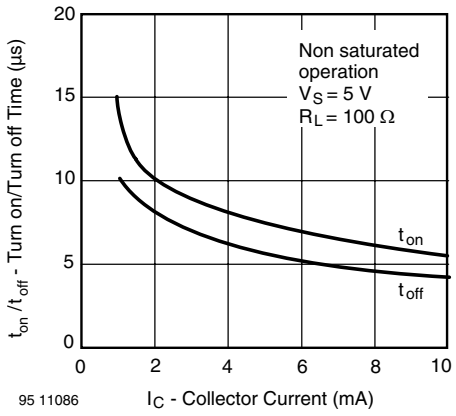


Fig. 10 - Turn-off/Turn-on Time vs. Collector Current

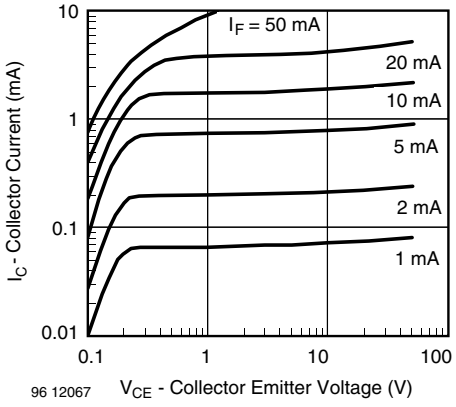


Fig. 8 - Collector Current vs. Collector Emitter Voltage

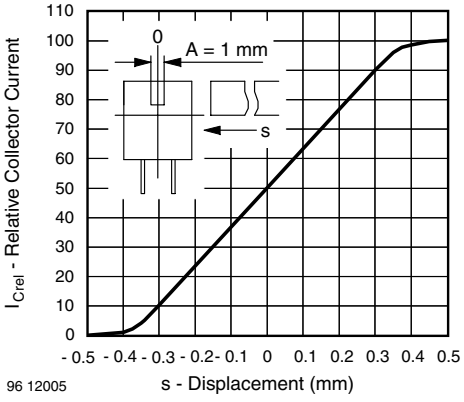


Fig. 11 - Relative Collector Current vs. Displacement