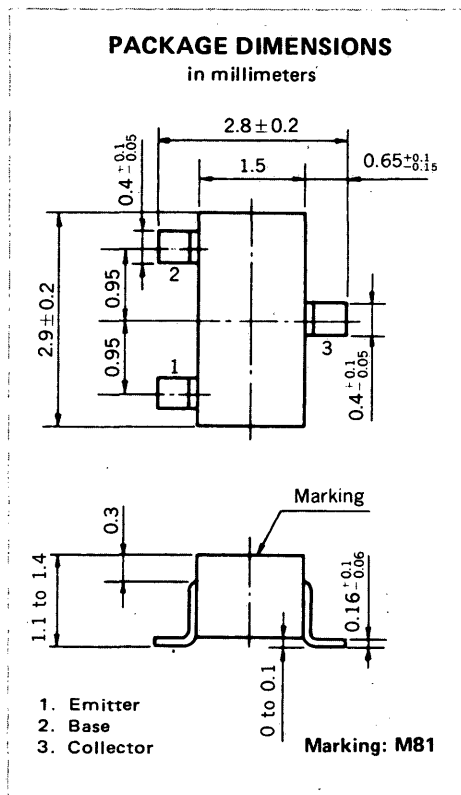
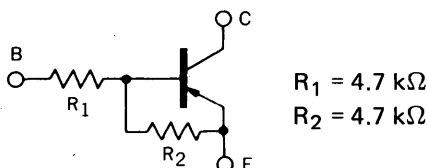


**MEDIUM SPEED SWITCHING
RESISTOR BUILT-IN TYPE PNP TRANSISTOR
MINI MOLD**



FEATURES

- Resistors Built-in TYPE



- Complementary to FA1L3M

ABSOLUTE MAXIMUM RATINGS

Maximum Voltages and Currents ($T_a = 25^\circ\text{C}$)

| | | | |
|---|-----------|-------------|------------------|
| Collector to Base Voltage | V_{CBO} | -60 | V |
| Collector to Emitter Voltage | V_{CEO} | -50 | V |
| Emitter to Base Voltage | V_{EBO} | -10 | V |
| Collector Current (DC) | I_C | -100 | mA |
| Collector Current (Pulse) | I_C | -200 | mA |
| Maximum Power Dissipation | | | |
| Total Power Dissipation | | | |
| at 25°C Ambient Temperature | P_T | 200 | mW |
| Maximum Temperatures | | | |
| Junction Temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | -55 to +150 | $^\circ\text{C}$ |

ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

| CHARACTERISTIC | SYMBOL | MIN. | TYP. | MAX. | UNIT | TEST CONDITIONS |
|------------------------------|-----------------|------|-------|------|------------------|---|
| Collector Cutoff Current | I_{CBO} | | | -100 | nA | $V_{CB} = -50 \text{ V}, I_E = 0$ |
| DC Current Gain | h_{FE1}^* | 20 | 40 | 80 | | $V_{CE} = -5.0 \text{ V}, I_C = -5.0 \text{ mA}$ |
| DC Current Gain | h_{FE2}^* | 70 | 110 | | | $V_{CE} = -5.0 \text{ V}, I_C = -50 \text{ mA}$ |
| Collector Saturation Voltage | $V_{CE(sat)}^*$ | | -0.08 | -0.3 | V | $I_C = -5.0 \text{ mA}, I_B = -0.25 \text{ mA}$ |
| Low-Level Input Voltage | V_{IL}^* | | -1.1 | -0.8 | V | $V_{CE} = -5.0 \text{ V}, I_C = -100 \mu\text{A}$ |
| High-Level Input Voltage | V_{IH}^* | -3.0 | -1.5 | | V | $V_{CE} = -0.2 \text{ V}, I_C = -5.0 \text{ mA}$ |
| Input Resistor | R_1 | 3.29 | 4.70 | 6.11 | $\text{k}\Omega$ | |
| Resistor Ratio | R_1/R_2 | 0.9 | 1.0 | 1.1 | | |
| Turn-on Time | t_{on} | | | 0.5 | μs | $V_{CC} = -5 \text{ V}, V_{in} = -5 \text{ V}$ $R_L = 1 \text{ k}\Omega$ $PW = 2 \mu\text{s}, \text{Duty Cycle} \leq 2\%$ |
| Storage Time | t_{stg} | | | 3.0 | μs | |
| Turn-off Time | t_{off} | | | 5.0 | μs | |

* Pulsed: $PW \leq 350 \mu\text{s}, \text{Duty Cycle} \leq 2\%$

TYPICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

