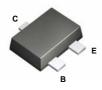




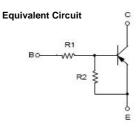
FJY4007R PNP Epitaxial Silicon Transistor

Features

- · Switching circuit, Inverter, Interface circuit, Driver Circuit
- Built in bias Resistor (R₁=22K Ω , R₂=47K Ω)
- Complement to FJY3007R







Absolute Maximum Ratings * Ta = 25°C unless otherwise noted

| Symbol | Parameter | Value | Units |
|------------------|---|---------|-------|
| V _{CBO} | Collector-Base Voltage | -50 | V |
| V _{CEO} | Collector-Emitter Voltage | -50 | V |
| V _{EBO} | Emitter-Base Voltage | -10 | V |
| I _C | Collector Current | -100 | mA |
| T _{STG} | Storage Temperature Range | -55~150 | °C |
| T _J | Junction Temperature | 150 | °C |
| P _C | Collector Power Dissipation, by $R_{\theta JA}$ | 200 | mW |

С

Thermal Characteristics* Ta=25°C unless otherwise noted

| Symbol | Parameter | Max | Units | |
|-----------------|---|-----|-------|--|
| $R_{\theta JA}$ | Thermal Resistance, Junction to Ambient | 600 | °C/W | |

^{*} Minimum land pad size.

Electrical Characteristics* T_C = 25°C unless otherwise noted

| Symbol | Parameter | Test Condition | MIN | Тур | MAX | Units |
|--------------------------------|--------------------------------------|---------------------------------------|------|------|------|-------|
| V _(BR) CBO | Collector-Emitter Breakdown Voltage | Ic = -10 uA, IE = 0 | -50 | | | V |
| V _(BR) CEO | Collector-Base Breakdown Voltage | Ic = -100 uA, I _B = 0 | -50 | | | V |
| Ісво | Collector-Cutoff Current | Vcb = -40 V, IE = 0 | | | -0.1 | uA |
| hfe | DC Current Gain | Vce = -5 V, Ic = -5mA | 68 | | | |
| VcE(sat) | Collector-Emitter Saturation Voltage | Ic = -10 mA, I _B = -0.5 mA | | | -0.3 | V |
| f⊤ | Current Gain - Bandwidth Product | Vce = -10V, Ic = -5 mA | | 200 | | MHz |
| Ccb | Output Capacitance | Vcb = -10 V, IE = 0, f = 1.0 MHz | | 5.5 | | pF |
| Vı(off) | Input Off Voltage | Vc= -5 V, Ic = -100uA | -0.4 | | | V |
| V _I (on) | Input On Voltage | Vce = -0.3V, Ic = -2mA | | | -2.5 | V |
| R ₁ | Input Resistor | | 15 | 22 | 29 | ΚΩ |
| R ₁ /R ₂ | Resistor Ratio | | 0.42 | 0.47 | 0.52 | |

^{*} Pulse Test: PW≤300μs, Duty Cycle≤2%

^{*} These ratings are limiting values above which the serviceability of any semiconductor device may by impaired.

Typical Performance Characteristics

Figure 1. DC current Gain

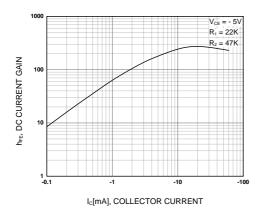


Figure 2. Input On Voltage

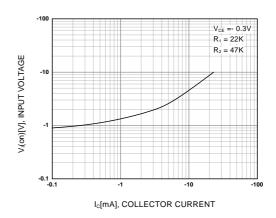


Figure 3. Input off Voltage

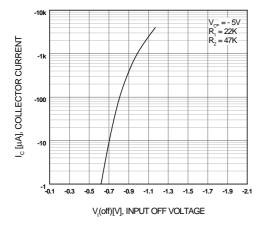
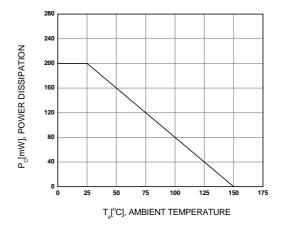
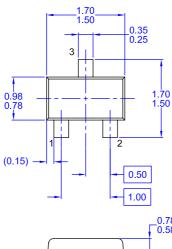


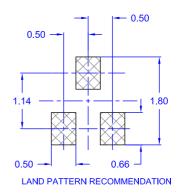
Figure 4. Power Derating

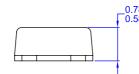


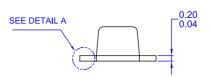
Package Dimensions

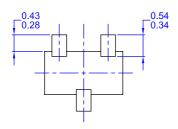
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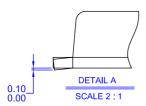












- NOTES: UNLESS OTHERWISE SPECIFIED A) THIS PACKAGE CONFORMS TO EIAJ SC89 PACKAGING STANDARD.
- B) ALL DIMENSIONS ARE IN MILLIMETERS.
 C) DIMENSIONS ARE EXCLUSIVE OF BURRS,
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Dimensions in Millimeters



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|--------------------------|------------------------|--|
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Rev. 125