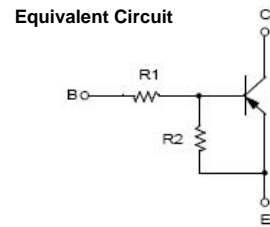
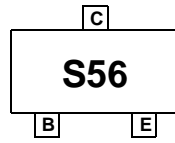
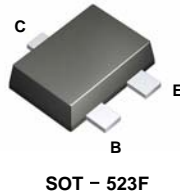


FJY4006R

PNP Epitaxial Silicon Transistor

Features

- Switching circuit, Inverter, Interface circuit, Driver Circuit
- Built in bias Resistor ($R_1=10K\Omega$, $R_2=47K\Omega$)
- Complement to FJY3006R



Absolute Maximum Ratings* $T_a = 25^\circ\text{C}$ 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	$^\circ\text{C}$
T_J	Junction Temperature	150	$^\circ\text{C}$
P_C	Collector Power Dissipation, by $R_{\theta JA}$	200	mW

* These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Thermal Characteristics* $T_a=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Max	Units
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	600	$^\circ\text{C/W}$

* Minimum land pad size.

Electrical Characteristics* $T_C = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	MIN	Typ	MAX	Units
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	$I_C = -10 \mu\text{A}$, $I_E = 0$	-50			V
$V_{(BR)CEO}$	Collector-Base Breakdown Voltage	$I_C = -100 \mu\text{A}$, $I_B = 0$	-50			V
I_{CBO}	Collector-Cutoff Current	$V_{CB} = -40 \text{V}$, $I_E = 0$			-0.1	μA
h_{FE}	DC Current Gain	$V_{CE} = -5 \text{V}$, $I_C = -5 \text{mA}$	68			
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -10 \text{mA}$, $I_B = -0.5 \text{mA}$			-0.3	V
f_r	Current Gain - Bandwidth Product	$V_{CE} = -10 \text{V}$, $I_C = -5 \text{mA}$		200		MHz
C_{cb}	Output Capacitance	$V_{CB} = -10 \text{V}$, $I_E = 0$, $f = 1.0 \text{MHz}$		5.5		pF
$V_{I(off)}$	Input Off Voltage	$V_{CE} = -5 \text{V}$, $I_C = -100 \mu\text{A}$	-0.3			V
$V_{I(on)}$	Input On Voltage	$V_{CE} = -0.3 \text{V}$, $I_C = -1 \text{mA}$			-1.4	V
R_1	Input Resistor		7	10	13	$K\Omega$
R_1/R_2	Resistor Ratio		0.19	0.21	0.24	

* Pulse Test: $PW \leq 300 \mu\text{s}$, Duty Cycle $\leq 2\%$

Typical Performance Characteristics

Figure 1. DC current Gain

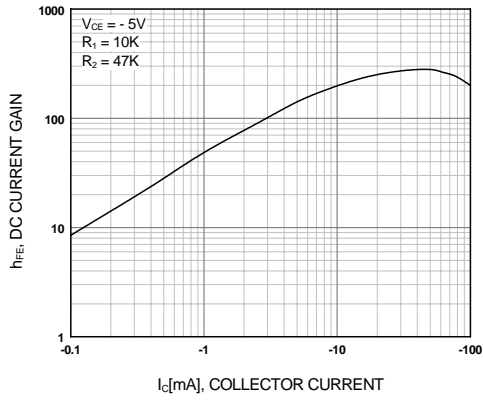


Figure 2. Input On Voltage

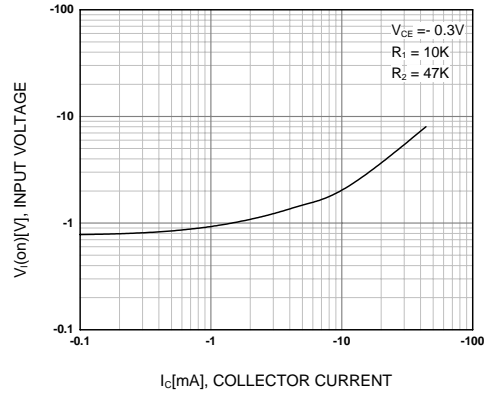


Figure 3. Input off Voltage

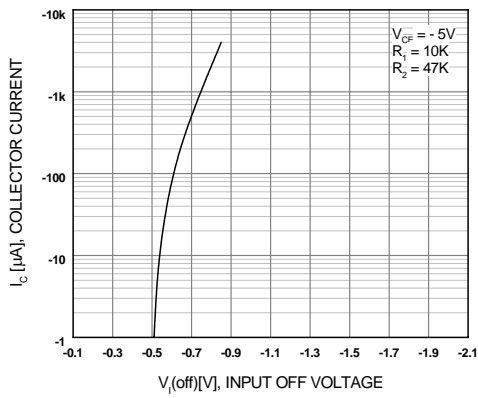
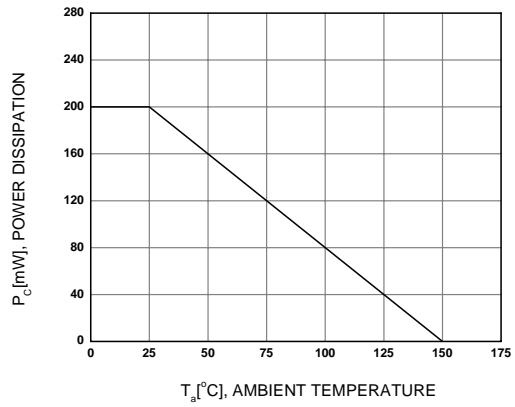
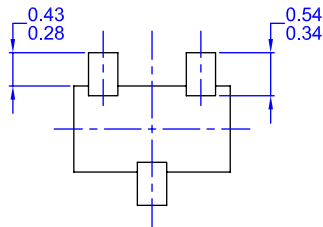
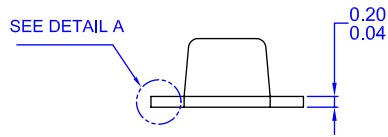
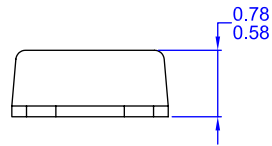
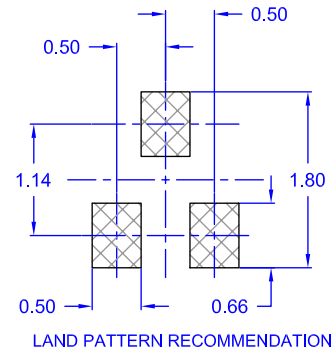
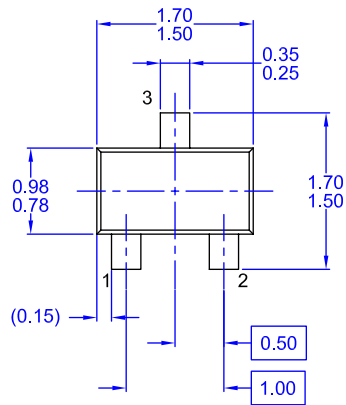


Figure 4. Power Derating



Package Dimensions

SOT-523F




- NOTES: UNLESS OTHERWISE SPECIFIED
 A) THIS PACKAGE CONFORMS TO EIAJ SC89 PACKAGING STANDARD.
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Dimensions in Millimeters



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