July 2007

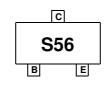


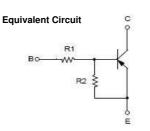
FJY4006R PNP Epitaxial Silicon Transistor

Features

- · Switching circuit, Inverter, Interface circuit, Driver Circuit
- Built in bias Resistor (R₁=10KΩ, R₂=47KΩ)
- Complement to FJY3006R







Absolute Maximum Ratings * T_a = 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
TJ	Junction Temperature	150	°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 by impaired.

Thermal Characteristics* Ta=25°C unless otherwise noted

Symbol	Parameter	Мах	Units
$R_{ ext{ heta}JA}$	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, IB = 0	-50			V
Ісво	Collector-Cutoff Current	$V_{CB} = -40 V, I_E = 0$			-0.1	uA
hfe	DC Current Gain	Vce = -5 V, Ic = -5mA	68			
VCE(sat)	Collector-Emitter Saturation Voltage	lc = -10 mA, l _B = -0.5 mA			-0.3	V
f⊤	Current Gain - Bandwidth Product	Vce = -10V, Ic = -5 mA		200		MHz
Ccb	Output Capacitance	V _{CB} = -10 V, I _E = 0, f = 1.0 MHz		5.5		pF
VI(off)	Input Off Voltage	Vce = -5 V, lc = -100uA	-0.3			V
V _{I(on)}	Input On Voltage	Vce = -0.3V, lc = -1mA			-1.4	V
R1	Input Resistor		7	10	13	KΩ
R1/R2	Resistor Ratio		0.19	0.21	0.24	
Pulse Test: PW≤3	300μs, Duty Cycle≤2%	•		•		

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Typical Performance Characteristics

Figure 1. DC current Gain

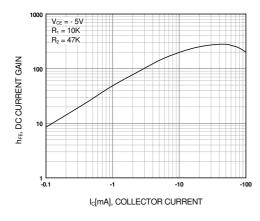


Figure 2. Input On Voltage

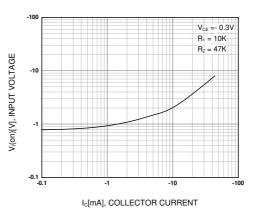


Figure 3. Input off Voltage

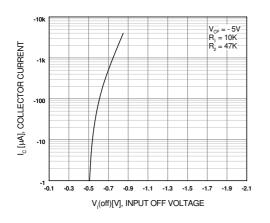
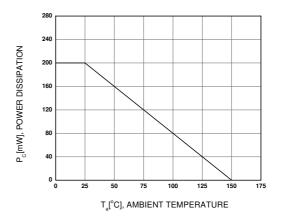
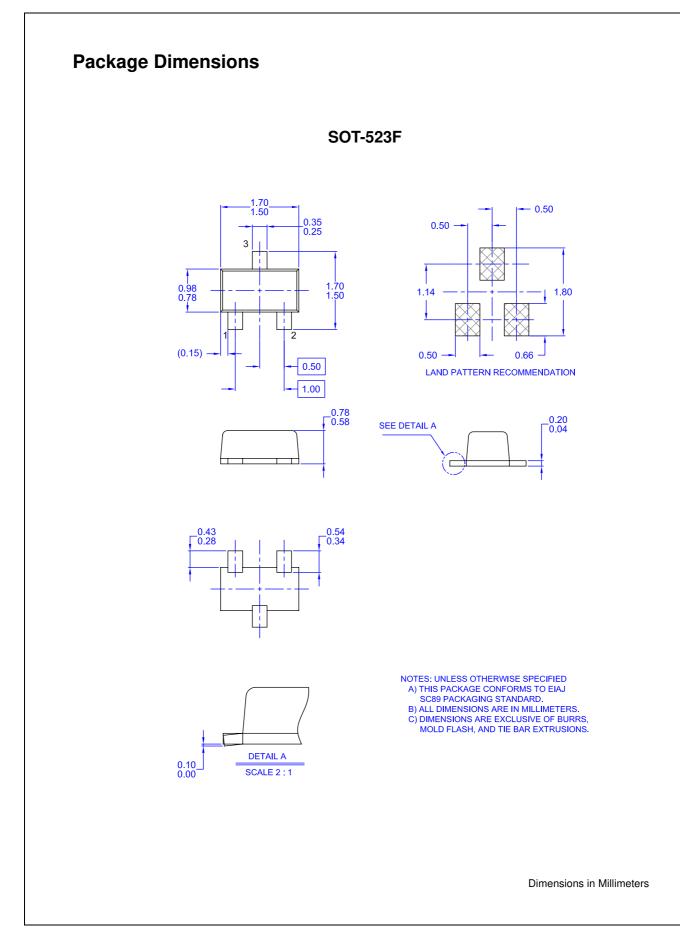


Figure 4. Power Derating





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