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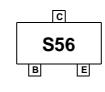


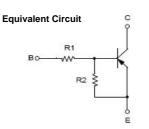
# **FJY4006R PNP Epitaxial Silicon Transistor**

# **Features**

- · Switching circuit, Inverter, Interface circuit, Driver Circuit
- Built in bias Resistor (R<sub>1</sub>=10KΩ, R<sub>2</sub>=47KΩ)
- Complement to FJY3006R







# Absolute Maximum Ratings \* T<sub>a</sub> = 25°C unless otherwise noted

Symbol	Parameter	Value	Units	
V <sub>CBO</sub>	Collector-Base Voltage	-50	V	
V <sub>CEO</sub> Collector-Emitter Voltage		-50	V	
V <sub>EBO</sub> Emitter-Base Voltage		-10	V	
I <sub>C</sub>	Collector Current	-100	mA	
T <sub>STG</sub> Storage Temperature Range		-55~150	°C	
TJ	Junction Temperature	150	°C	
P <sub>C</sub> Collector Power Dissipation, by R <sub>0JA</sub>		200	mW	

ing values above which the serviceability of any semiconductor device may by impaired. These ratio

#### Thermal Characteristics\* Ta=25°C unless otherwise noted

Symbol	Parameter	Мах	Units
R <sub>0JA</sub> Thermal Resistance, Junction to Ambient		600	°C/W

Minimum land pad size.

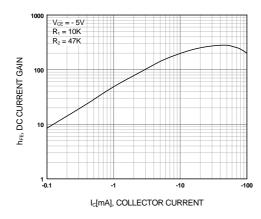
# Electrical Characteristics\* T<sub>c</sub> = 25°C unless otherwise noted

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 <sub>B</sub> = 0	-50			V
Ісво	Collector-Cutoff Current	V <sub>CB</sub> = -40 V, I <sub>E</sub> = 0			-0.1	uA
hfe	DC Current Gain	Vce = -5 V, Ic = -5mA	68			
Vce(sat)	Collector-Emitter Saturation Voltage	Ic = -10 mA, I <sub>B</sub> = -0.5 mA			-0.3	V
f⊤	Current Gain - Bandwidth Product	Vce = -10V, Ic = -5 mA		200		MHz
Ccb	Output Capacitance	V <sub>CB</sub> = -10 V, I <sub>E</sub> = 0, f = 1.0 MHz		5.5		pF
VI(off)	Input Off Voltage	Vce = -5 V, Ic = -100uA	-0.3			V
VI(on)	Input On Voltage	Vce = -0.3V, Ic = -1mA			-1.4	V
R1	Input Resistor		7	10	13	KΩ
R1/R2	Resistor Ratio		0.19	0.21	0.24	

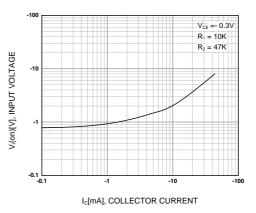
July 2007

# **Typical Performance Characteristics**

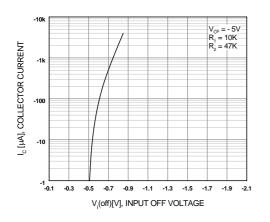
### Figure 1. DC current Gain



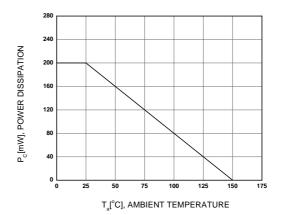
### Figure 2. Input On Voltage

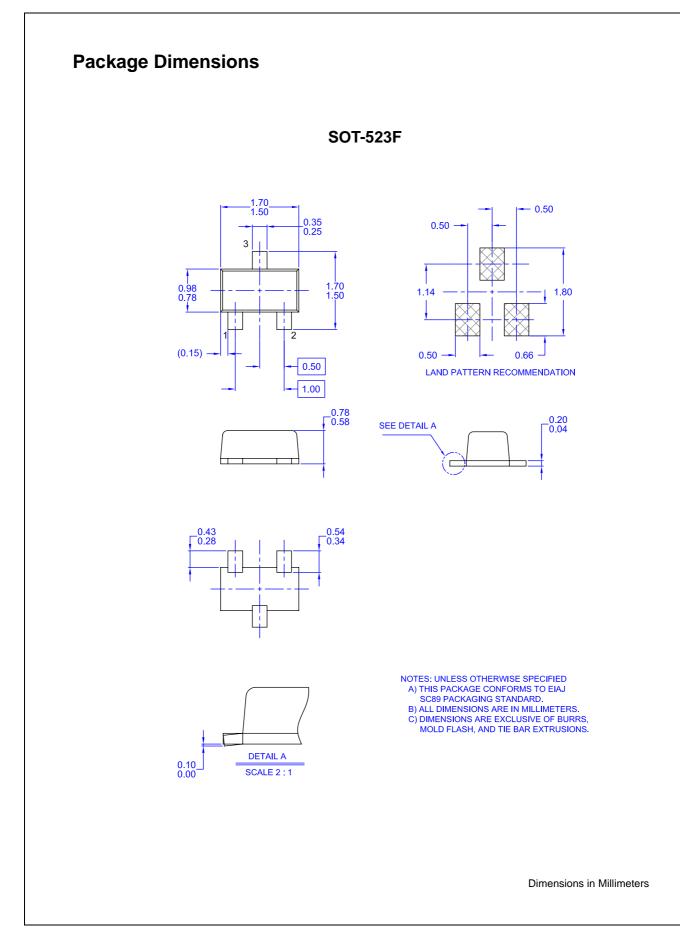


#### Figure 3. Input off Voltage



### Figure 4. Power Derating





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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.	
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