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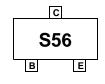
FJY4006R PNP Epitaxial Silicon Transistor

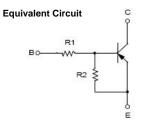
July 2007

Features

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







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

^{*} 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	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	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1.0 \text{ MHz}$		5.5		pF
V _I (off)	Input Off Voltage	Vce = -5 V, Ic = -100uA	-0.3			V
V _I (on)	Input On Voltage	VcE = -0.3V, Ic = -1mA			-1.4	V
R ₁	Input Resistor		7	10	13	ΚΩ
R ₁ /R ₂	Resistor Ratio		0.19	0.21	0.24	

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

Typical Performance Characteristics

Figure 1. DC current Gain

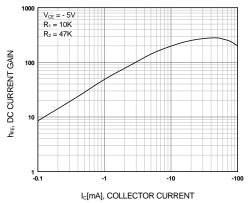


Figure 3. Input off Voltage

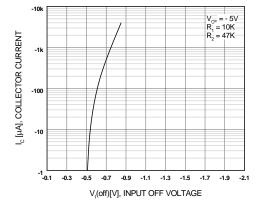


Figure 2. Input On Voltage

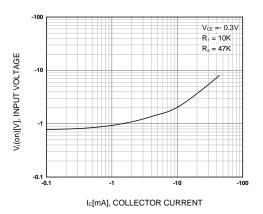
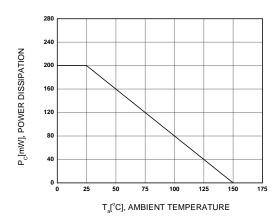
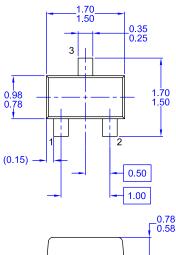


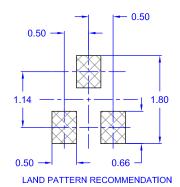
Figure 4. Power Derating

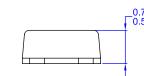


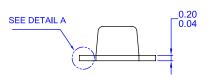
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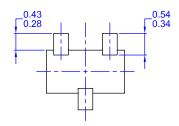
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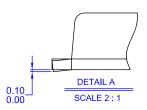












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Dimensions in Millimeters





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