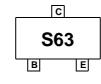


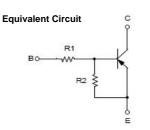
FJY4013R PNP Epitaxial Silicon Transistor

Features

- · Switching circuit, Inverter, Interface circuit, Driver Circuit
- Built in bias Resistor (R₁=2.2KΩ, R₂=47KΩ)
- Complement to FJY3013R







July 2007

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	٥C	
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 _{0JA} 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	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 V, I _E = 0, f = 1.0 MHz		5.5		pF
VI(off)	Input Off Voltage	Vce = -5 V, Ic = -100uA	-0.5			V
VI(on)	Input On Voltage	Vce = -0.2V, Ic = -10mA			-1.1	V
R1	Input Resistor		1.5	2.2	2.9	KΩ
R1/R2	Resistor Ratio		0.042	0.047	0.052	

Typical Performance Characteristics

Figure 1. DC current Gain

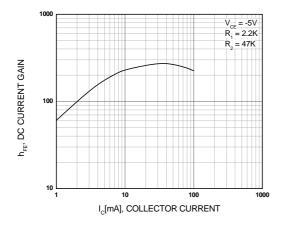


Figure 2. Input On Voltage

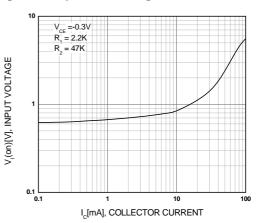


Figure 3. Collector-Emitter Saturation Voltage

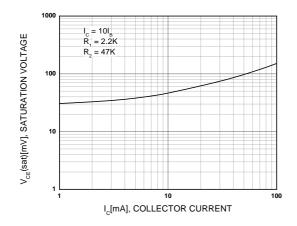
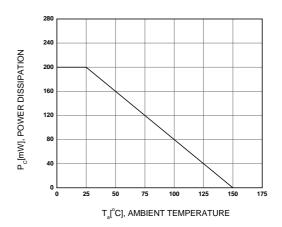
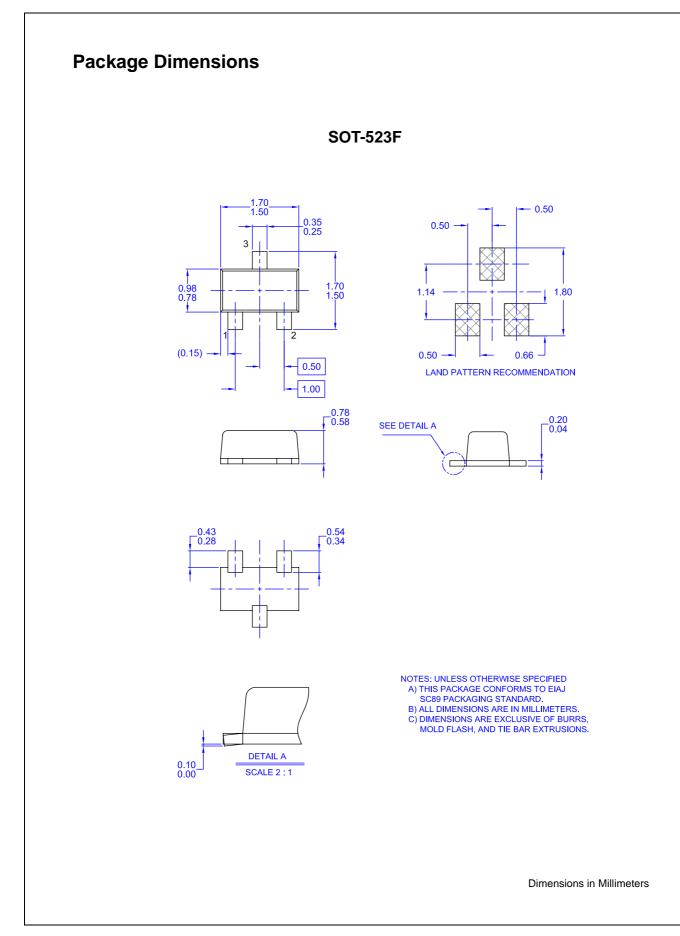


Figure 4. Power Derating





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