July 2007

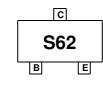


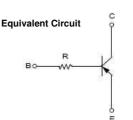
FJY4012R PNP Epitaxial Silicon Transistor

Features

- · Switching circuit, Inverter, Interface circuit, Driver Circuit
- Built in bias Resistor (R=47KΩ)
- Complement to FJY3012R







Absolute Maximum Ratings * T_a = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	-40	V
V _{CEO}	Collector-Emitter Voltage	-40	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current	-100	mA
T _{STG}	Storage Temperature Range	-55~150	°C
TJ	Junction Temperature	150	٥C
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_{\thetaJA}	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 = -100 uA, IE = 0	-40			V
V(BR)CEO	Collector-Base Breakdown Voltage	Ic = -1mA, Iв = 0	-40			V
Ісво	Collector-Cutoff Current	$V_{CB} = -30 V, I_E = 0$			-0.1	uA
hfe	DC Current Gain	Vce = -5 V, lc = -1 mA	100		600	
VCE(sat)	Collector-Emitter Saturation Voltage	$I_{C} = -10 \text{ mA}, I_{B} = -1 \text{ mA}$			-0.3	V
f⊤	Current Gain - Bandwidth Product	Vce = -10V, Ic =- 5 mA		200		MHz
Ccb	Output Capacitance	Vcb = -10 V, IE = 0, f = 1.0 MHz		5.5		pF
R	Input Resistor		32	47	62	KΩ

* Pulse Test: PW≤300µs, Duty Cycle≤2%

Typical Performance Characteristics

Figure 1. DC current Gain

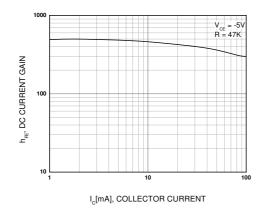


Figure 2. Collector-Emitter Saturation Voltage

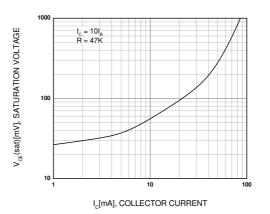
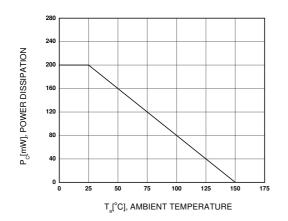
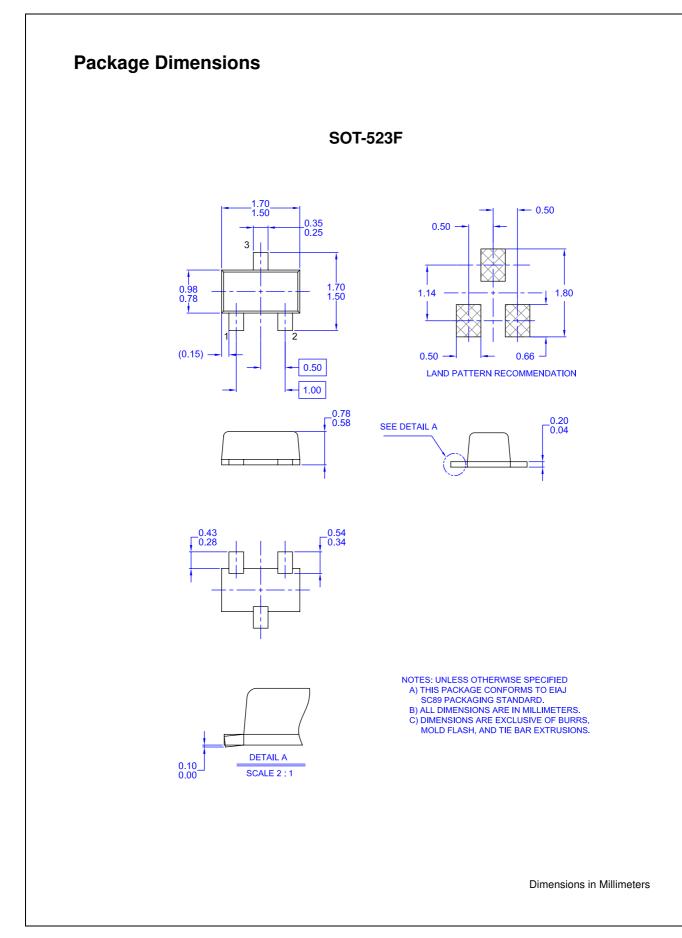


Figure 3. Power Derating





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