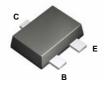


July 2007

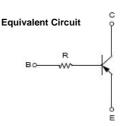
FJY4009R PNP Epitaxial Silicon Transistor

Features

- · Switching circuit, Inverter, Interface circuit, Driver Circuit
- Built in bias Resistor (R=4.7KΩ)
- · Complement to FJY3009R







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
T _J	Junction Temperature	150	°C
P _C	Collector Power Dissipation, by $R_{\theta JA}$	200	mW

С

Thermal Characteristics* Ta=25°C unless otherwise noted

R _{AJA} Thermal Resistance, Junction to Ambient 600	Max Units	Max	Parameter	Symbol
00/1	600 °C/W	600	R _{0JA} Thermal Resistance, Junction to Ambient	

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, I _B = 0	-40			V
Ісво	Collector-Cutoff Current	Vcb = -30 V, IE = 0			-0.1	uA
hfE	DC Current Gain	Vce = -5 V, Ic = -1 mA	100		600	
Vce(sat)	Collector-Emitter Saturation Voltage	Ic = -10 mA, I _B = -1 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		3.2	4.7	6.2	ΚΩ

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

^{*} These ratings are limiting values above which the serviceability of any semiconductor device may by impaired.

Typical Performance Characteristics

Figure 1. DC current Gain

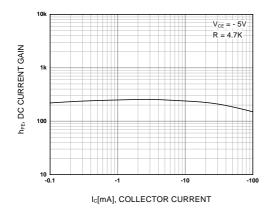


Figure 2. Collector-Emitter Saturation Voltage

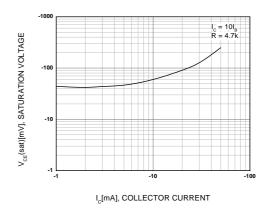
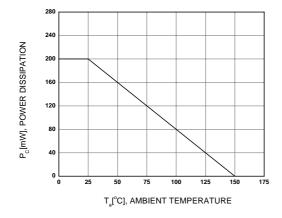


Figure 3. Power Derating

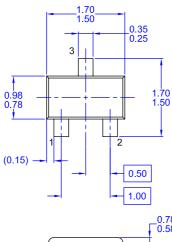
FJY4009R Rev. B

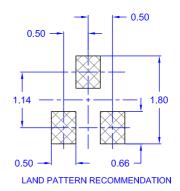


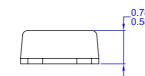
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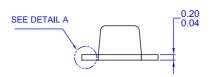
Package Dimensions

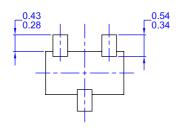
SOT-523F

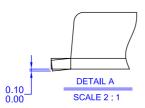












- NOTES: UNLESS OTHERWISE SPECIFIED A) THIS PACKAGE CONFORMS TO EIAJ SC89 PACKAGING STANDARD.
- B) ALL DIMENSIONS ARE IN MILLIMETERS.
 C) DIMENSIONS ARE EXCLUSIVE OF BURRS,
 MOLD FLASH, AND TIE BAR EXTRUSIONS.

Dimensions in Millimeters



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