

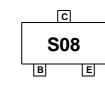


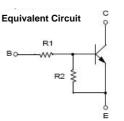
FJY3008R NPN Epitaxial Silicon Transistor

Features

- · Switching circuit, Inverter, Interface circuit, Driver Circuit
- Built in bias Resistor (R1=47KΩ, R2=22KΩ)
- Complement to FJY4008R







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	°C
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_{\thetaJA}	Thermal Resistance, Junction to Ambient	600	°C/W

Minimum land pad size.

Electrical Characteristics* T_c = 25°C unless otherwise noted

ector-Emitter Breakdown Voltage ector-Base Breakdown Voltage ector-Cutoff Current Current Gain ector-Emitter Saturation Voltage	Ic = 10 uA, IE = 0 $Ic = 100 uA, IB = 0$ $VcB = 40 V, IE = 0$ $VcE = 5 V, Ic = 5 mA$ $Ic = 10 mA, IB = 0.5 mA$	50 50 56		0.1	V V uA
ector-Cutoff Current	$V_{CB} = 40 \text{ V}, I_E = 0$ $V_{CE} = 5 \text{ V}, I_C = 5 \text{ mA}$			0.1	-
Current Gain	Vce = 5 V, Ic = 5 mA	56		0.1	uA
	,	56		1	
ector-Emitter Saturation Voltage	$l_{c} = 10 \text{ mA}$, $l_{B} = 0.5 \text{ mA}$				
				0.3	V
ent Gain - Bandwidth Product	Vce = 10V, Ic = 5 mA		250		MHz
ut Capacitance	Vcb = 10 V, IE = 0, f = 1.0 MHz		3.7		pF
t Off Voltage	Vce = 5 V, Ic = 100uA	0.8			V
t On Voltage	Vce = 0.3V, Ic = 2mA			4	V
Resistor		32	47	62	KΩ
ator Patia		1.9	2.1	2.4	
	On Voltage	On Voltage VcE = 0.3V, Ic = 2mA Resistor Image: Constraint of the second secon	On Voltage VcE = 0.3V, Ic = 2mA Resistor 32	On Voltage VcE = 0.3V, Ic = 2mA Resistor 32 47	On Voltage V _{CE} = 0.3V, Ic = 2mA 4 Resistor 32 47 62

July 2007

Typical Performance Characteristics

Figure 1. DC current Gain

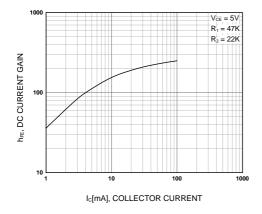


Figure 2. Input On Voltage

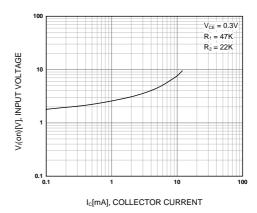


Figure 3. Input off Voltage

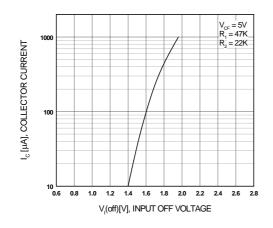
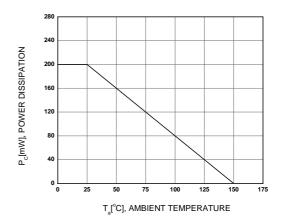
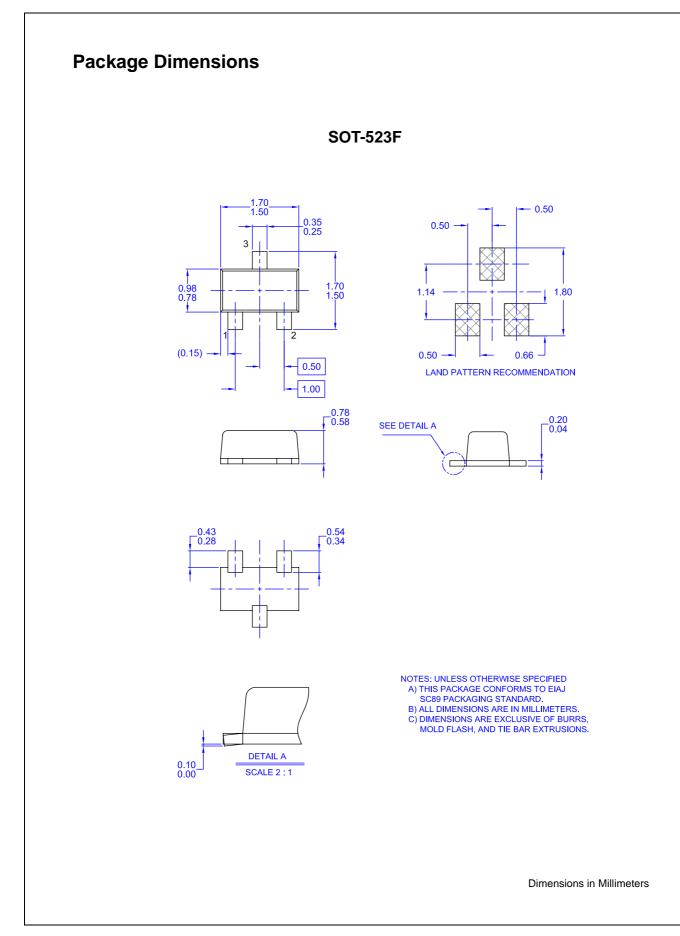


Figure 4. Power Derating





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FAST [®]	PACMAN™	SuperSOT™-6
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Rev. 125