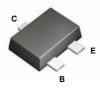




FJY4007R PNP Epitaxial Silicon Transistor

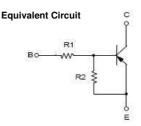
Features

- · Switching circuit, Inverter, Interface circuit, Driver Circuit
- Built in bias Resistor (R₁=22K Ω , R₂=47K Ω)
- Complement to FJY3007R



SOT - 523F





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

С

Thermal Characteristics* $T_a=25$ °C unless otherwise noted

R _{BJA} Thermal Resistance, Junction to Ambient 600 °C/W	Symbol	Parameter	Max	Units
0071		Thermal Resistance, Junction to Ambient	600	°C/W

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			
V _{CE(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	Vcb = -10 V, IE = 0, f = 1.0 MHz		5.5		pF
V _I (off)	Input Off Voltage	Vce = -5 V, Ic = -100uA	-0.4			V
V _I (on)	Input On Voltage	Vce = -0.3V, Ic = -2mA			-2.5	V
R ₁	Input Resistor		15	22	29	ΚΩ
R ₁ /R ₂	Resistor Ratio		0.42	0.47	0.52	

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

Typical Performance Characteristics

Figure 1. DC current Gain

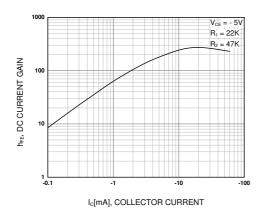


Figure 2. Input On Voltage

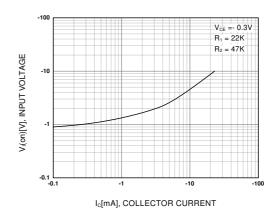


Figure 3. Input off Voltage

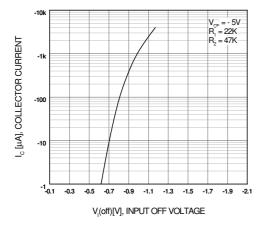
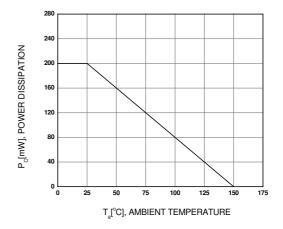
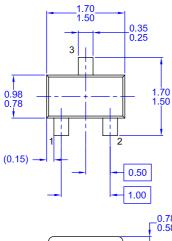


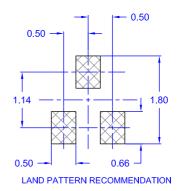
Figure 4. Power Derating

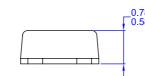


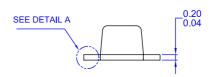
Package Dimensions

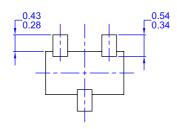
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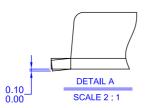












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Dimensions in Millimeters





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