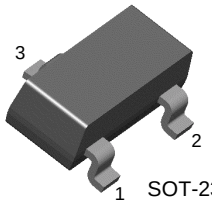
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FJV4101R

Switching Application (Bias Resistor Built In)

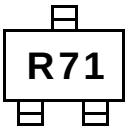
- Switching circuit, Inverter, Interface circuit, Driver Circuit
- Built in bias Resistor (R_1=4.7KΩ, R_2=4.7KΩ)
- Complement to FJV3101R



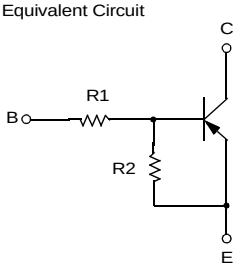
SOT-23

1. Base 2. Emitter 3. Collector

Marking



Equivalent Circuit



PNP Epitaxial Silicon Transistor

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
P_C	Collector Power Dissipation	200	mW
T_J	Junction Temperature	150	°C
T_{STG}	Storage Temperature	-55 ~ 150	°C

Electrical Characteristics T_a=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
BV_{CBO}	Collector-Base Breakdown Voltage	I_C= -10μA, I_E=0	-50			V
BV_{CEO}	Collector-Emitter Breakdown Voltage	I_C= -100μA, I_B=0	-50			V
I_{CBO}	Collector Cut-off Current	V_{CB}= -40V, I_E=0			-0.1	μA
h_{FE}	DC Current Gain	V_{CE}= -5V, I_C= -10mA	20			
V_{CE}(sat)	Collector-Emitter Saturation Voltage	I_C= -10mA, I_B= -0.5mA			-0.3	V
f_T	Current Gain Bandwidth Product	V_{CE}= -10V, I_C=-5mA		200		MHz
C_{ob}	Output Capacitance	V_{CB}= -10V, I_E=0 f=1.0MHz		5.5		pF
V_I(off)	Input Off Voltage	V_{CE}= -5V, I_C= -100μA	-0.5			V
V_I(on)	Input On Voltage	V_{CE}= -0.3V, I_C= -20mA			-3	V
R_1	Input Resistor		3.2	4.7	6.2	KΩ
R_1/R_2	Resistor Ratio		0.9	1	1.1	

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Typical Characteristics

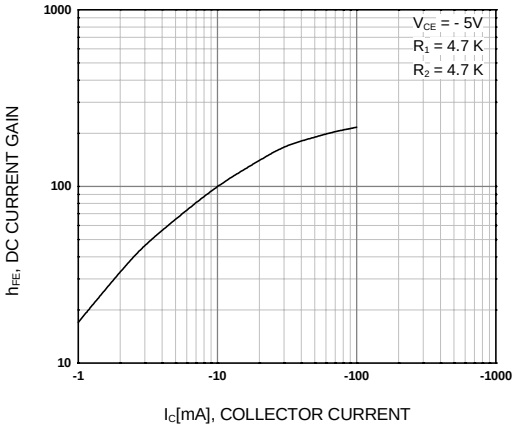


Figure 1. DC current Gain

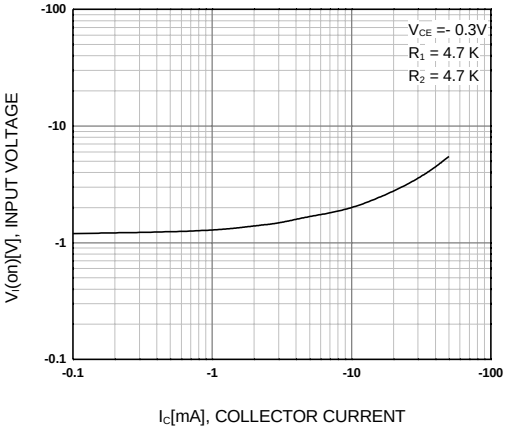


Figure 2. Input On Voltage

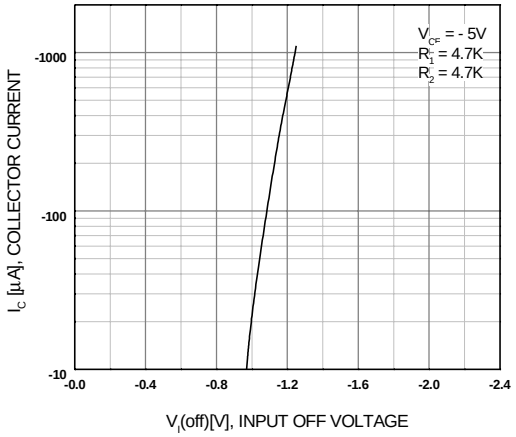


Figure 3. Input Off Voltage

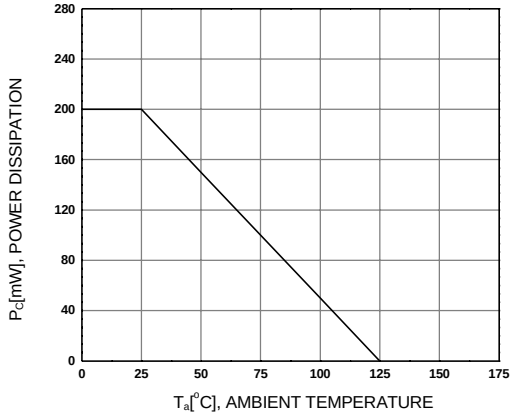
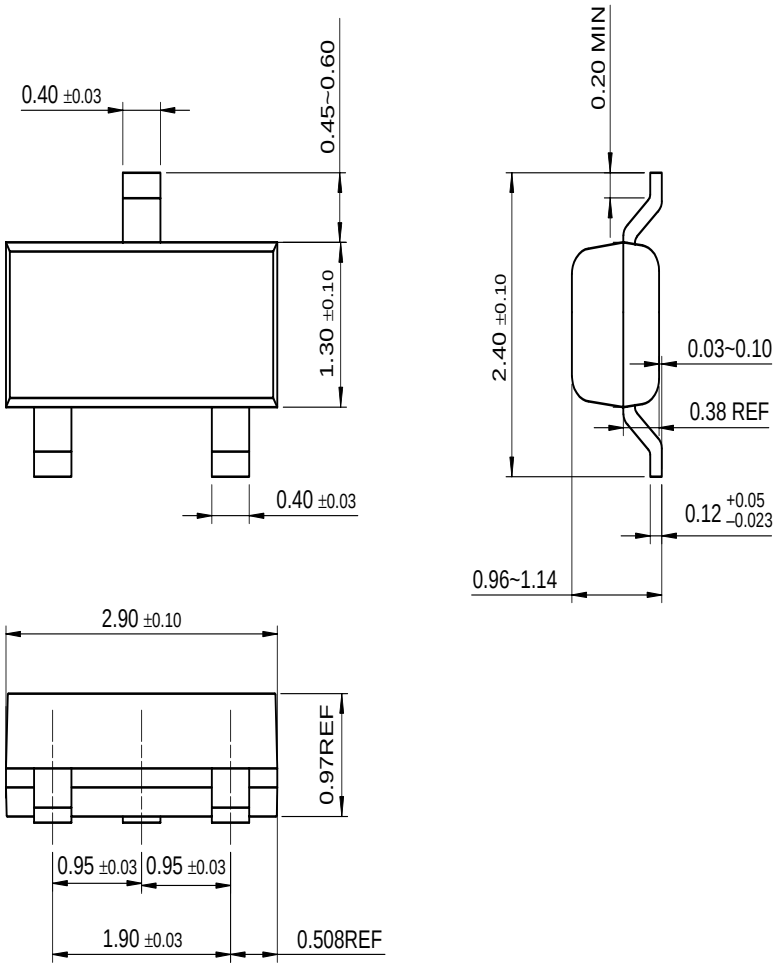


Figure 4. Power Derating

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Package Demensions

SOT-23



Dimensions in Millimeters

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