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Fairchild Semiconductor FJV4108RMTF

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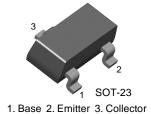


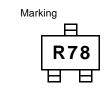


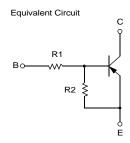
FJV4108R

Switching Application (Bias Resistor Built In)

- Switching circuit, Inverter, Interface circuit, Driver Circuit
- Built in bias Resistor (R₁=47K Ω , R₂=22K Ω)
- Complement to FJV3108R







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 Ta=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I_{C} = -10 μ A, I_{E} =0	-50			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	$I_C = -100 \mu A, I_B = 0$	-50			V
I _{CBO}	Collector Cut-off Current	V_{CB} = -40V, I_{E} =0			-0.1	μΑ
h _{FE}	DC Current Gain	V_{CE} = -5V, I_{C} = -5mA	56			
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	$V_{CE} = -5V, I_{C} = -100\mu A$	-0.8			V
V _I (on)	Input On Voltage	$V_{CE} = -0.3V, I_{C} = -2mA$			-4	V
R ₁	Input Resistor		32	47	62	ΚΩ
R ₁ /R ₂	Resistor Ratio		1.9	2.1	2.4	

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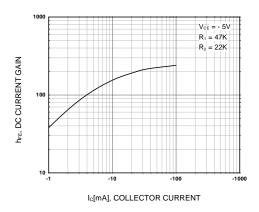


Figure 1. DC current Gain

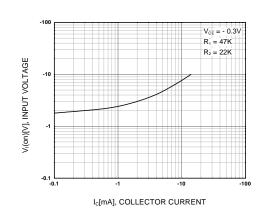


Figure 2. Input On Voltage

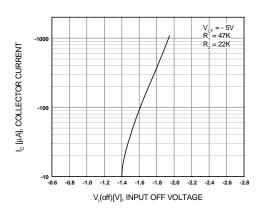


Figure 3. Input Off Voltage

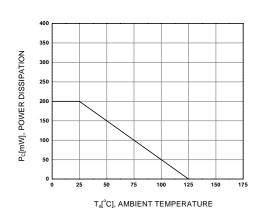
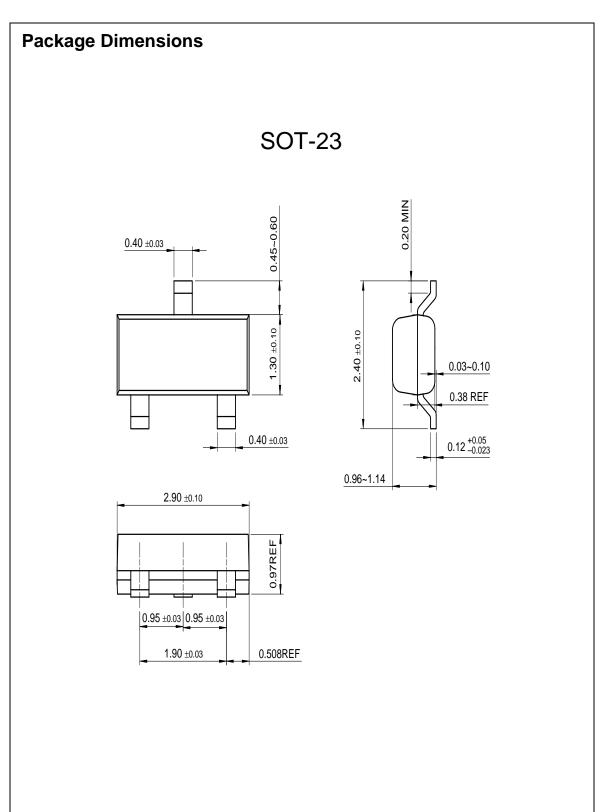


Figure 4. Power Derating

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Dimensions in Millimeters

Distributor of Fairchild Semiconductor: Excellent Integrated System Limited Datasheet of FJV4108RMTF - TRANS PREBIAS PNP 200MW SOT23-3

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