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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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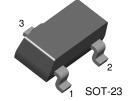




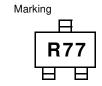
FJV4107R

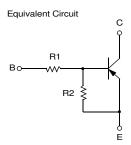
Switching Application (Bias Resistor Built In)

- Switching circuit, Inverter, Interface circuit, Driver Circuit
- Built in bias Resistor ($R_1=22K\Omega$, $R_2=47K\Omega$)
- Complement to FJV3107R



1. Base 2. Emitter 3. Collector





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
	Collector-Emitter Voltage	-50	V
V _{CEO} V _{EBO}	Emitter-Base Voltage	-10	V
I _C	Collector Current	-100	mA
P _C	Collector Power Dissipation	200	mW
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

$\textbf{Electrical Characteristics} \ \, \textbf{T}_{\textbf{a}} = 25 ^{\circ} \textbf{C} \ \, \textbf{unless otherwise noted}$

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	$I_{C} = -10\mu A, I_{E} = 0$	-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	68			
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -10mA, I _B = -0.5mA			-0.3	V
C _{ob}	Output Capacitance	V _{CB} = -10V, I _E =0 f=1MHz		5.5		pF
f _T	Current Gain-Bandwidth Product	V _{CE} = -10V, I _C = -5mA		200		MHz
V _I (off)	Input Off Voltage	V_{CE} = -5V, I_{C} = -100 μ A	-0.4			V
V _I (on)	Input On Voltage	V_{CE} = -0.3V, I_{C} = -2mA			-2.5	V
R ₁	Input Resistor		15	22	29	ΚΩ
R ₁ /R ₂	Resistor Ratio		0.42	0.47	0.52	

Typical Characteristics

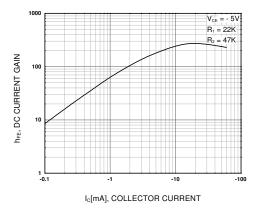


Figure 1. DC current Gain

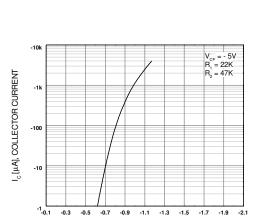


Figure 3. Input Off Voltage

V,(off)[V], INPUT OFF VOLTAGE

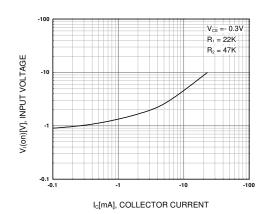


Figure 2. Input On Voltage

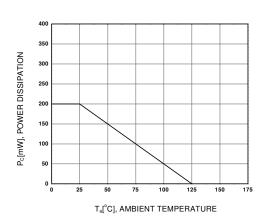
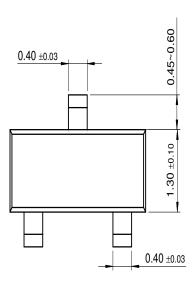
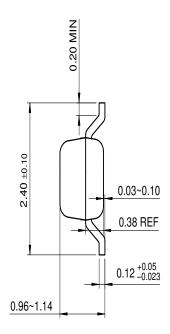


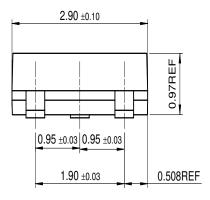
Figure 4. Power Derating

Package Dimensions

SOT-23







Dimensions in Millimeters

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Rev. I1

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Datasheet Identification	Product Status	Definition
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