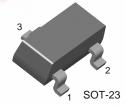


FJV4101R

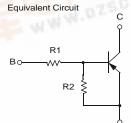
Switching Application (Bias Resistor Built In)

- Switching circuit, Inverter, Interface circuit, Driver Circuit
- Built in bias Resistor ($R_1=4.7K\Omega$, $R_2=4.7K\Omega$) WWW.DZSG.COM
- Complement to FJV3101R



1. Base 2. Emitter 3. Collector





PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings Ta=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	$I_C = -10\mu A, I_E = 0$	-50			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	$I_C = -100 \mu A, I_B = 0$	-50	da-		V
I _{CBO}	Collector Cut-off Current	V _{CB} = -40V, I _E =0		-	-0.1	μΑ
h _{FE}	DC Current Gain	$V_{CE} = -5V, I_{C} = -10mA$	20	4.4		
V _{CE} (sat)	Collector-Emitter Saturation Voltage	$I_C = -10 \text{mA}, I_B = -0.5 \text{mA}$			-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 μ A	-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	ΚΩ
R ₁ /R ₂	Resistor Ratio		0.9	1	1.1	

Typical Characteristics

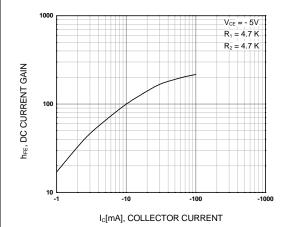


Figure 1. DC current Gain

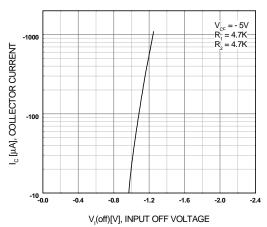
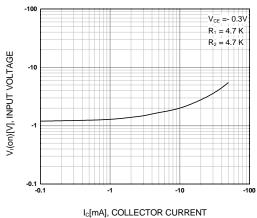


Figure 3. Input Off Voltage





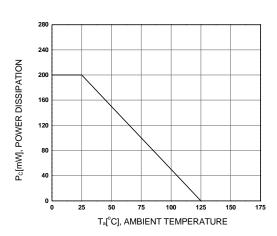
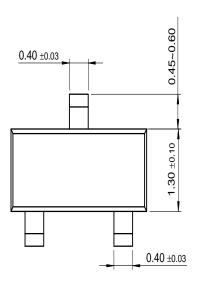


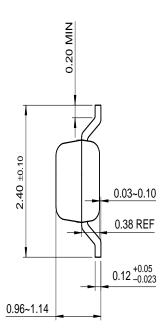
Figure 4. Power Derating

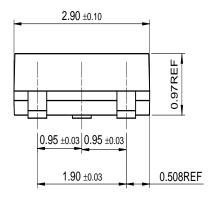
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Package Demensions

SOT-23







Dimensions in Millimeters

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