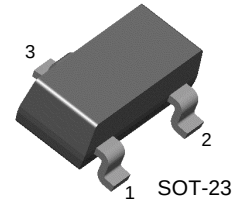


FJV3113R

FJV3113R

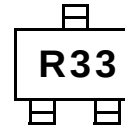
Switching Application (Bias Resistor Built In)

- Switching circuit, Inverter, Interface circuit, Driver Circuit
- Built in bias Resistor ($R_1=2.2K\Omega$, $R_2=47K\Omega$)
- Complement to FJV4113R

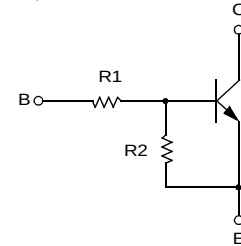


1. Base 2. Emitter 3. Collector

Marking



Equivalent Circuit



NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings $T_a=25^\circ\text{C}$ unless otherwise noted

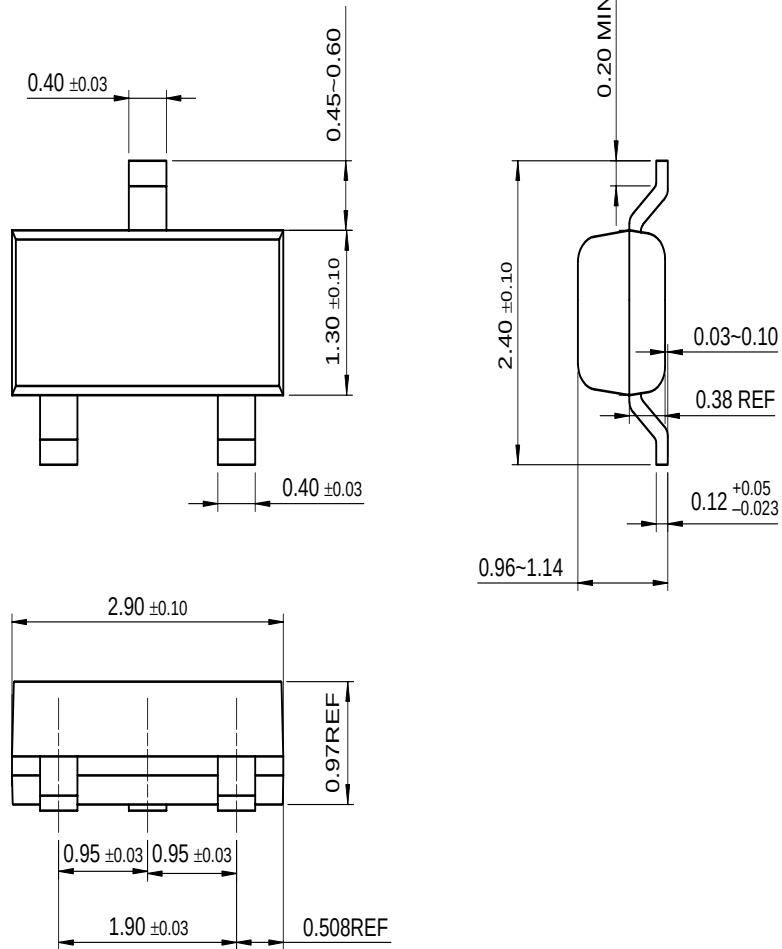
Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	50	V
V_{CEO}	Collector-Emitter Voltage	50	V
V_{EBO}	Emitter-Base Voltage	10	V
I_C	Collector Current	100	mA
P_C	Collector Power Dissipation	200	mW
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{STG}	Storage Temperature	-55 ~ 150	$^\circ\text{C}$

Electrical Characteristics $T_a=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
BV_{CBO}	Collector-Base Breakdown Voltage	$I_C=10\mu\text{A}$, $I_E=0$	50			V
BV_{CEO}	Collector-Emitter Breakdown Voltage	$I_C=100\mu\text{A}$, $I_B=0$	50			V
I_{CBO}	Collector Cut-off Current	$V_{CB}=40\text{V}$, $I_E=0$			0.1	μA
h_{FE}	DC Current Gain	$V_{CE}=5\text{V}$, $I_C=5\text{mA}$	68			
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C=10\text{mA}$, $I_B=0.5\text{mA}$			0.3	V
f_T	Current Gain Bandwidth Product	$V_{CE}=10\text{V}$, $I_C=5\text{mA}$		250		MHz
C_{ob}	Output Capacitance	$V_{CB}=10\text{V}$, $I_E=0$ $f=1.0\text{MHz}$		3.7		pF
$V_I(off)$	Input Off Voltage	$V_{CE}=5\text{V}$, $I_C=100\mu\text{A}$	0.5			V
$V_I(on)$	Input On Voltage	$V_{CE}=0.2\text{V}$, $I_C=5\text{mA}$			1.1	V
R_1	Input Resistor		1.5	2.2	2.9	$K\Omega$
R_1/R_2	Resistor Ratio		0.042	0.047	0.052	

Package Dimensions

SOT-23



Dimensions in Millimeters

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