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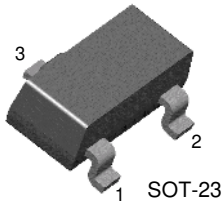
FJV4110R

Switching Application (Bias Resistor Built In)

- Switching circuit, Inverter, Interface circuit, Driver Circuit
- Built in bias Resistor (R=10KΩ)
- Complement to FJV3110R



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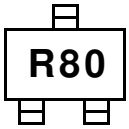
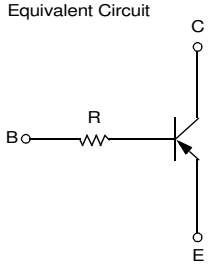
1. Base 2. Emitter 3. Collector

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	-40	V
V_{CEO}	Collector-Emitter Voltage	-40	V
V_{EBO}	Emitter-Base Voltage	-5	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= -100μA, I_E=0	-40			V
BV_{CEO}	Collector-Emitter Breakdown Voltage	I_E= -1mA, I_B=0	-40			V
I_{CBO}	Collector Cut-off Current	V_{CB}= -30V, I_E=0			-0.1	μA
h_{FE}	DC Current Gain	V_{CE}= -5V, I_C= -1mA	100		600	
V_{CE} (sat)	Collector-Emitter Saturation Voltage	I_C= -10mA, I_B= -1mA			-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
R	Input Resistor		7	10	13	KΩ

Typical Characteristics

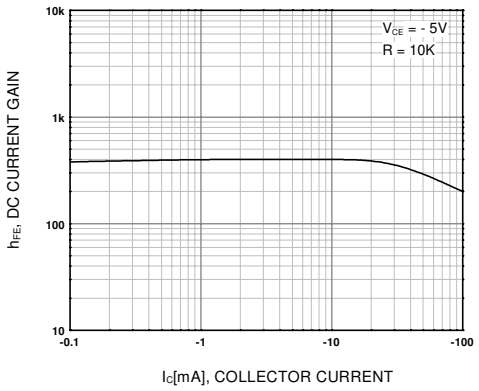


Figure 1. DC current Gain

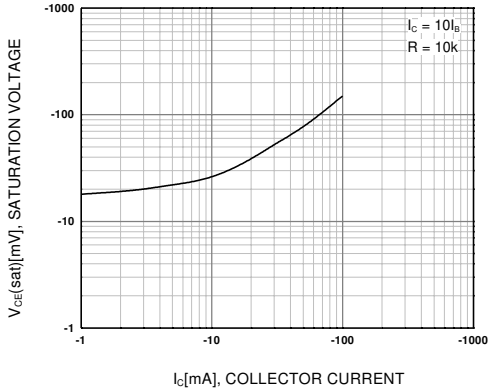


Figure 2. Collector-Emitter Saturation

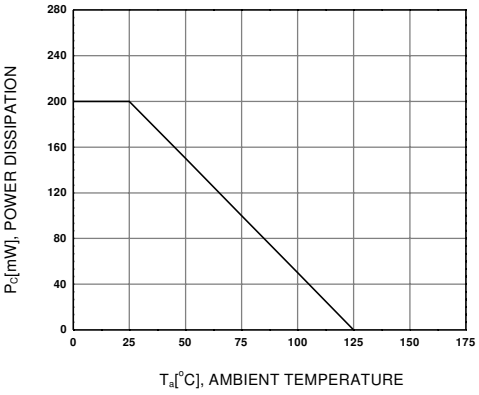


Figure 3. Power Derating

Package Dimensions

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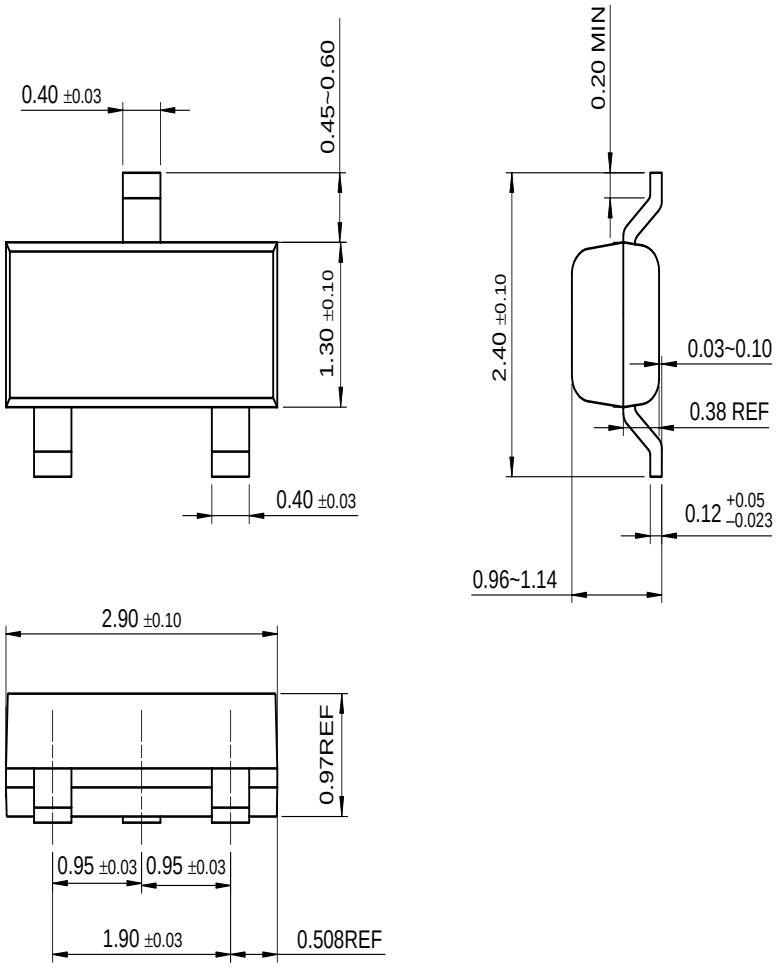

Dimensions in Millimeters

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CoolFET™	FASTr™	MicroFET™	PowerTrench®	SuperSOT™-6
CROSSVOLT™	FRFET™	MicroPak™	QFET™	SuperSOT™-8
DOME™	GlobalOptoisolator™	MICROWIRE™	QS™	SyncFET™
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Programmable Active Droop™		OPTOPLANAR™	SMART START™	

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Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
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Features

- Switching circuit, Inverter, Interface circuit, Driver Circuit
- Built in bias Resistor (R=10KΩ)
- Complement to FJV3110R

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Product status/pricing/packaging

Product	Product status	Pricing*	Inventory check & ordering	Package type	Leads	Packing method
FJV4110RMTF	Full Production	$0.056	Purchase	SOT-23	3	TAPE REEL

* Fairchild 1,000 piece Budgetary Pricing

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