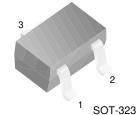


FJX4014R

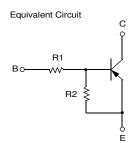
Switching Application (Bias Resistor Built In)

- Switching circuit, Inverter, Interface circuit, Driver Circuit
- Built in bias Resistor (R₁ =4.7K Ω , R₂=47K Ω)
- Complement to FJX3014R



1. Base 2. Emitter 3. Collector





PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a =25°C unless otherwise noted

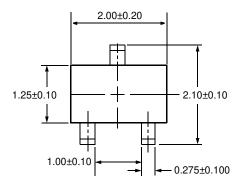
Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	-50	V
V_{CEO}	Collector-Emitter Voltage	-50	V
V_{EBO}	Emitter-Base Voltage	-10	V
I _C	Collector Current	-100	mA
P _C	Collector Power Dissipation	200	mW
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

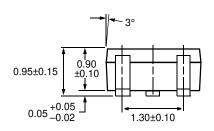
Electrical Characteristics T_a =25°C unless otherwise noted

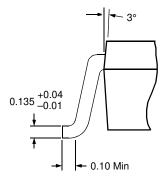
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	$I_{C}=-10\mu A, I_{E}=0$	-50			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	$I_{C}=-100\mu A,\ I_{B}=0$	-50			V
I _{CBO}	Collector Cutoff Current	$V_{CB} = -40V, I_{E} = 0$			-0.1	μΑ
h _{FE}	DC Current 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
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	$V_{CE} = -5V, I_{C} = -100\mu A$	-0.5			V
V _I (on)	Input On Voltage	$V_{CE} = -0.2V, I_{C} = -5mA$			-1.3	V
R ₁	Input Resistor		3.2	4.7	6.2	ΚΩ
R ₁ /R ₂	Resistor Ratio		0.09	0.1	0.11	

Package Dimensions

SOT-323







Dimensions in Millimeters

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E ² CMOS™	HiSeC™	MSXPro™	Quiet Series™	TruTranslation™
EnSigna™	I^2C^{TM}	OCXTM	RapidConfigure™	UHC™
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Rev. I1

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Definition of Terms

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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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