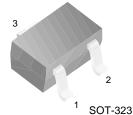


FJX3009R

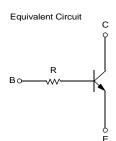
Switching Application (Bias Resistor Built In) - Switching circuit, Inverter, Interface circuit, Driver Circuit

- Built in bias Resistor (R=4.7KΩ)
- Complement to FJX4009R



1. Base 2. Emitter 3. Collector





NPN 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
TJ	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 =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	μΑ
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		3.70		pF
f _T	Current Gain Bandwidth Product	V_{CE} =10V, I_{C} =5mA		250		MHz
R	Input Resistor		3.2	4.7	6.2	ΚΩ

Typical Characteristics

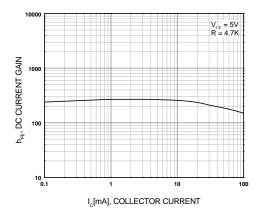


Figure 1. DC current Gain

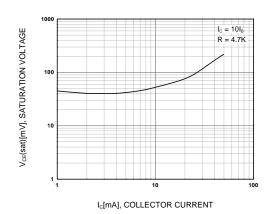


Figure 2. Collector-Emitter Saturation Voltage

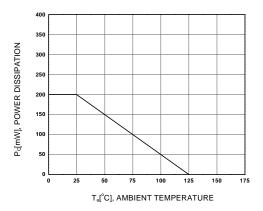
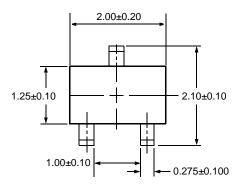
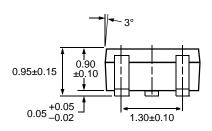


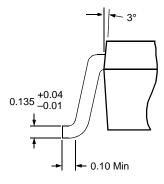
Figure 3. Power Derating

Package Dimensions

SOT-323







Dimensions in Millimeters

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E ² CMOS™	HiSeC™	MSXPro™	Quiet Series™	TruTranslation™
EnSigna™	I^2C^{TM}	OCX^{TM}	RapidConfigure™	UHC™
Across the board.	. Around the world.™	OCXPro™	RapidConnect™	UltraFET [®]
The Power Franchise™		OPTOLOGIC [®]	SILENT SWITCHER®	VCX^{TM}
Programmable Ad	ctive Droop™	OPTOPLANAR™	SMART START™	

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