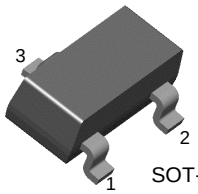
FAIRCHILD
SEMICONDUCTOR®

BCX71G

General Purpose Transistor



SOT-23

1. Base 2. Emitter 3. Collector

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a=25°C unless otherwise noted

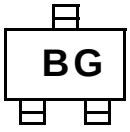
Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	-45	V
V_{CEO}	Collector-Emitter Voltage	-45	V
V_{EBO}	Emitter-Base Voltage	-5.0	V
I_C	Collector Current	-100	mA
P_C	Collector Power Dissipation	350	mW
T_{STG}	Storage Temperature	150	°C

• Refer to KST5086 for graphs

Electrical Characteristics T_a=25°C unless otherwise noted

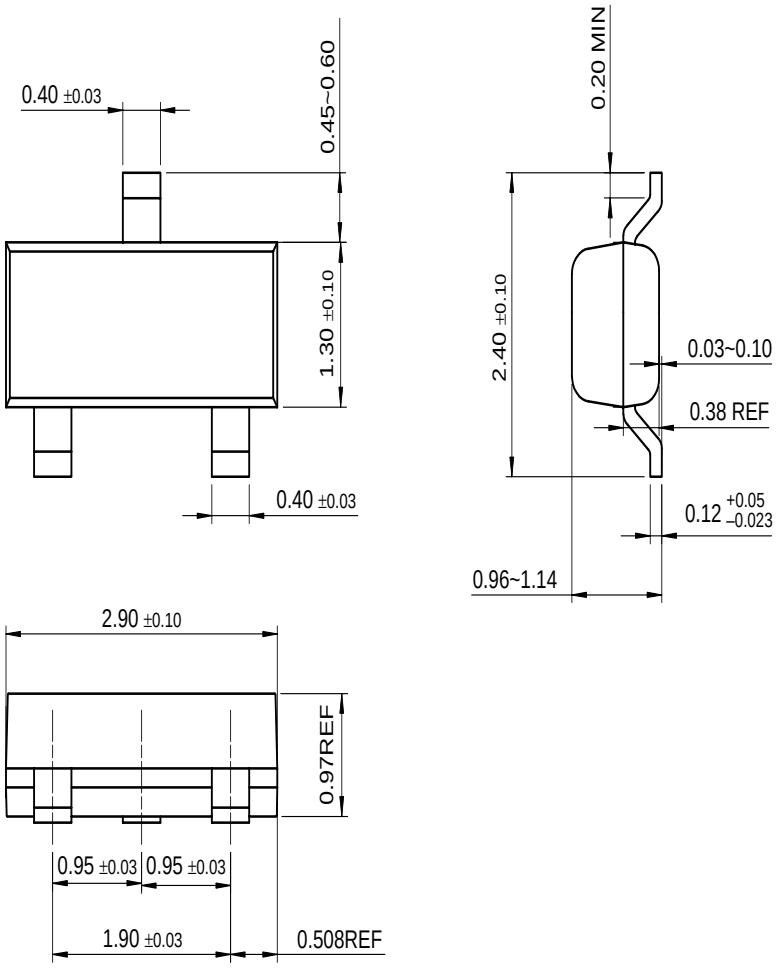
Symbol	Parameter	Test Condition	Min.	Max.	Units
BV_{CEO}	Collector-Emitter Breakdown Voltage	I_C= -2mA, I_B=0	-45		V
BV_{EBO}	Emitter-Base Breakdown Voltage	I_E= -1μA, I_C=0	-5		V
I_{CES}	Collector Cut-off Current	V_{CE}= -32V, V_{BE}=0		-20	nA
h_{FE}	DC Current Gain	V_{CE}= -5V, I_C= -2mA V_{CE}= -1V, I_C= -50μA	120 60	220	
V_{CE} (sat)	Collector-Emitter Saturation Voltage	I_C= -10mA, I_B= -0.25mA I_C= -50mA, I_B= -1.25mA		-0.25 -0.55	V V
V_{BE} (sat)	Base-Emitter Saturation Voltage	I_C= -10mA, I_B= -0.25mA I_C= -50mA, I_B= -1.25mA	-0.6 -0.68	-0.85 -1.05	V V
V_{BE} (on)	Base-Emitter On Voltage	V_{CE}= -5V, I_C= -2mA	-0.6	-0.75	V
C_{ob}	Output Capactance	V_{CB}= -10V, I_E=0, f=1MHz			pF
NF	Noise Figure	I_C=0.2mA, V_{CE}=5V f=1KHz, R_S=2KΩ		6	dB
t_{ON}	Turn On Time	I_C= -10mA, I_{B1}= -1mA		150	ns
t_{OFF}	Turn Off Time	I_{B2}= -1mA, V_{BB}=3.6V R_L=990Ω		800	ns

Marking



Package Demensions

SOT-23



Dimensions in Millimeters

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