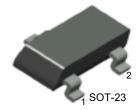


BCX71J

General Purpose Transistor



PNP Epitaxial Silicon Transistor

1. Base 2. Emitter 3. Collector

Absolute Maximum Ratings Ta=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	V
I _C	Collector Current	-100	mA
P _C	Collector Dissipation	350	mW
T _{STG}	Storage Temperature	150	°C

Refer to KST5086 for graphs

Electrical Characteristics T_a =25°C unless otherwise noted

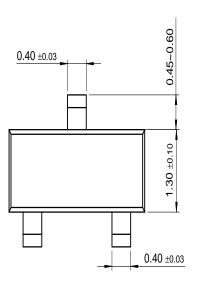
Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = -2mA, I _B =0	-45		V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = -1μA, I _C =0	-5		V
I _{CES}	Collector Cut-off Current	V _{CE} = -32V, V _{BE} =0		-20	nA
h _{FE}	DC Current Gain	V_{CE} = -5V, I_{C} = -10 μ A V_{CE} = -5V, I_{C} = -2 μ A V_{CE} = -1V, I_{C} = -50 μ A	40 250 100	460	
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 Capacitance	V _{CB} = -10V, I _E =0, f=1MHz		6	pF
NF	Noise Figure	I_C = -0.2mA, V_{CE} = -5V f=1KHz, R_S =2K Ω		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 =990 Ω		800	ns

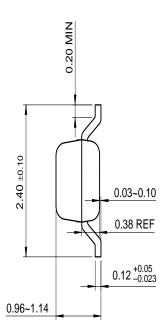
Marking

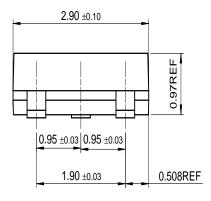


Package Demensions

SOT-23







Dimensions in Millimeters

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