

BCX71J

PNP EPITAXIAL SILICON TRANSISTOR

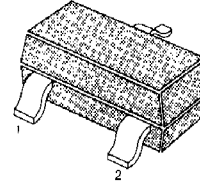
GENERAL PURPOSE TRANSISTOR

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-45	V
Collector-Emitter Voltage	V _{CEO}	-45	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	I _C	-100	mA
Collector Dissipation	P _C	350	mW
Storage Temperature	T _{STG}	150	°C

• Refer to KS5086 for graphs

SOT-23

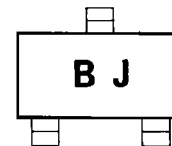


1. Base 2. Emitter 3. Collector

ELECTRICAL CHARACTERISTICS (T_A=25°C)

Characteristic	Symbol	Test Conditions	Min	Max	Unit
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C = -2mA, I _B =0	-45		V
Emitter-Base Breakdown Voltage	BV _{EBO}	I _E = -1μA, I _C =0	-5		V
Collector Cut-off Current	I _{CES}	V _{CE} = -32V, V _{BE} =0		-20	nA
DC Current Gain	h _{FE}	V _{CE} = -5V, I _C = -10μA	40		
		V _{CE} = -5V, I _C = -2mA	250	460	
		V _{CE} = -1V, I _C = -50mA	100		
Collector-Emitter Saturation Voltage	V _{CE} (sat)	I _C = -10mA, I _B = -0.25mA		-0.25	V
		I _C = -50mA, I _B = -1.25mA		-0.55	V
Base-Emitter Saturation Voltage	V _{BE} (sat)	I _C = -10mA, I _B = -0.25mA	-0.6	-0.85	V
		I _C = -50mA, I _B = -1.25mA	-0.68	-1.05	V
Base-Emitter On Voltage	V _{DE} (on)	I _C = -2mA, V _{CE} = -5V	-0.6	-0.75	V
Current Gain Bandwidth Product	C _{OB}	V _{CE} = -10V, I _E =0 f=1MHz		6	pF
Noise Figure	NF	I _C = -0.2mA, V _{CE} = -5V f=1KHz, R _S =2KΩ		6	dB
Turn On Time	T _{ON}	I _C = -10mA, I _{B1} = -1mA		150	ns
Turn Off Time	T _{OFF}	I _{B2} = -1mA, V _{BB} = -3.6V R _L =990Ω		800	ns

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