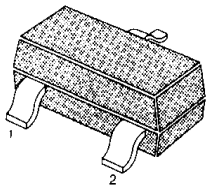
BCX71G PNP EPITAXIAL SILICON TRANSISTOR

GENERAL PURPOSE TRANSISTOR

SOT-23



1. Base 2. Emitter 3. Collector

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

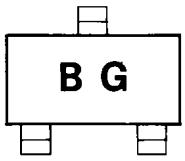
Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	-45	V
Collector-Emitter Voltage	V_{CEO}	-45	V
Emitter-Base Voltage	V_{EBO}	-5.0	V
Collector Current	I_C	-100	mA
Collector Dissipation	P_C	350	mW
Storage Temperature	T_{STG}	150	°C

• Refer to KS5086 for graphs

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_{EB}= -5V, I_C= -2mA	120	220	
		V_{CE}= -1V, I_C= -50μA	60		
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_{BE} (on)	I_C= -2mA, V_{CE}= -5V	-0.6	-0.75	V
Current Gain Bandwidth Product	C_{OB}	V_{CB}= -10V, I_E=0 f=1MHz		6	pF
Noise Figure	NF	I_C=0.2mA, V_{CE}=5V R_S=2KΩ, f=1KHz		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

Marking



Rev. B

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