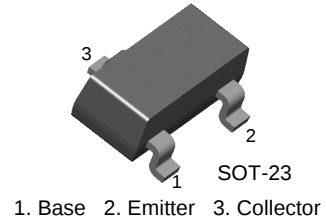


BCX71G

BCX71G

General Purpose Transistor



PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings $T_a=25^\circ\text{C}$ unless otherwise noted

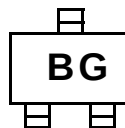
Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	-45	V
V_{CEO}	Collector-Emitter Voltage	-45	V
V_{EBO}	Emitter-Base Voltage	-5.0	V
I_C	Collector Current	-100	mA
P_C	Collector Power Dissipation	350	mW
T_{STG}	Storage Temperature	150	$^\circ\text{C}$

• Refer to KST5086 for graphs

Electrical Characteristics $T_a=25^\circ\text{C}$ unless otherwise noted

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

Marking



Package Dimensions

SOT-23



Dimensions in Millimeters

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