

Excellent Integrated System Limited

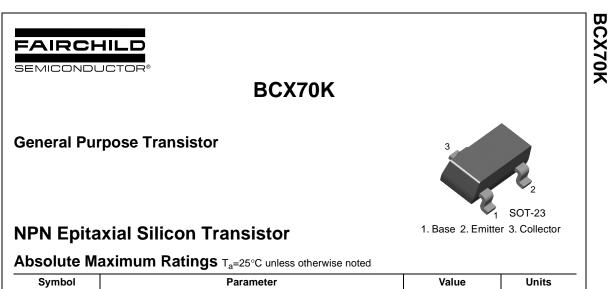
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Fairchild Semiconductor BCX70K

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>





Symbol	Falalletel	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	200	mA
P _C	Collector Power Dissipation	350	mW
T _{STG}	Storage Temperature	-55 ~ 150	°C
Pofor to KST2004 fo	ranhe.	•	

Refer to KST3904 for graphs

Electrical Characteristics Ta=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =2.0mA, I _B =0	45		V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =1.0μA, I _C =0	5		V
I _{CES}	Collector Cut-off Current	V _{CE} =32V, V _{BE} =0		20	nA
I _{EBO}	Emitter Cut-off Current	V _{EB} =4V, I _C =0		20	nA
h _{FE}	DC Current Gain	$V_{CE}=5V, I_{C}=10\mu A$ $V_{CE}=5V, I_{C}=2.0mA$ $V_{CE}=1V, I_{C}=50mA$	100 380 100	630	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =10mA, I _B =0.25mA I _C =50mA, I _B =1.25mA		0.35 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 0.7	0.85 1.05	V V
V _{BE} (on)	Base-Emitter On Voltage	I _C =2.0mA, V _{CE} =5V	0.55	0.75	V
f _T	Current Gain Bandwidth Product	I _C =10mA, V _{CE} =5V, f=100MHz	125		MHz
C _{ob}	Output Capacitance	V _{CB} =10V, I _E =0, f=1MHz		4.5	pF
NF	Noise Figure	V _{CE} =5V, I _C =0.2mA R _S =2KΩ, f=1KHz		6	dB
t _{ON}	Turn On Time	I _C =10mA, I _{B1} =1.0mA 150		150	ns
t _{OFF}	Turn Off Time	V _{BB} =3.6V, I _{B2} =1.0mA R ₁ =R ₂ =5KΩ, R ₁ =990Ω		800	ns

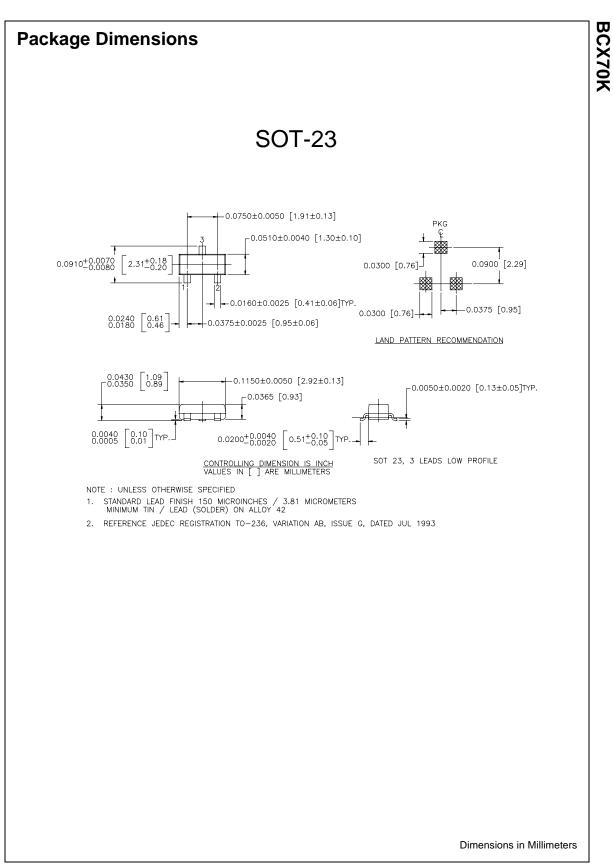




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	Programmable Ac	ctive Droop™	OPTOPLANAR™	SMART START™	

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