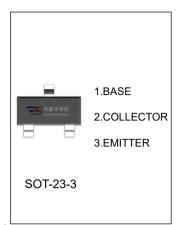


BCX70J,BCX70K TRANSISTOR (NPN)

FEATURES

- Low current
- Low voltage



MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	45	V
V _{CEO}	Collector-Emitter Voltage	45	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current -Continuous	200	mA
Pc	Collector Power Dissipation	250	mW
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55-150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =10μA,I _E =0	45			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =2mA,I _B =0	45			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =1μA,I _C =0	5			V
Collector cut-off current	I _{CES}	V _{CE} =45V,V _{BE} =0			20	nA
	h _{FE1}	V _{CE} =5V,I _C =10μA	30			
DC current gain BCX70J	h _{FE2}	V _{CE} =5V,I _C =2mA	250		460	
	h _{FE3}	V _{CE} =1V,I _C =50mA	90			
	h _{FE1}	$V_{CE}=5V,I_{C}=10\mu A$	100			
DC current gain BCX70K	h _{FE2}	V_{CE} =5 V , I_{C} =2 mA	380		630	
	h _{FE3}	V _{CE} =1V,I _C =50mA	100			
Collector-emitter saturation voltage	V _{CE(sat)1}	I _C = 10mA I _B = 0.25 mA	0.05		0.35	V
Conector-entitler Saturation Voltage	V _{CE(sat)2}	I _C = 50mA I _B =1.25 mA	0.1		0.55	V
Base -emitter saturation voltage	$V_{BE(sat)1}$	I _C = 10mA I _B =-0.25 mA	0.6		0.85	V
base -emitter saturation voltage	$V_{BE(sat)2}$	I _C = 50mA I _B = 1.25 mA	0.7		1.05	V
Base-emitter voltage	V_{BE}	V_{CE} =5 V , I_{C} =2 mA	0.55		0.75	V
Collector output capacitance	C _{ob}	V _{CB} =10V,I _E =0,f=1MHz		1.7		pF
Noice Figure	NF	V _{CE} =5V,I _C =200μA,			6	dB
Noise Figure		f=1kHz,BW=200Hz,RS=2kΩ			0	
Gain-Bandwidth Product	f _T	V _{CE} = 5 V, I _C =10mA,f =100 MHz	100	250		MHz