

NPN small signal transistor

BCX70J, K

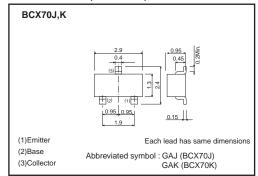
Features

- 1) Ideal for switching and AF amplifier applications.
- 2) Complements the BCX71.

Packaging specifications

	Package	Taping
Type	Code	T116
	Basic ordering unit (pieces)	3000
BCX70J, K		0

●Dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit	
Collector-base voltage	Vсво	45	V	
Collector-emitter voltage	Vceo	45	V	
Emitter-base voltage	Vево	5	V	
Collector current	lc	0.2	А	
	Б	0.2	W	
Collector power dissipation	Pc	0.35	W *	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55 to 150	°C	

^{*} Mounted on a 7×5×0.6 mm CERAMIC SUBSTRATE

●Electrical characteristics (Ta=25°C)

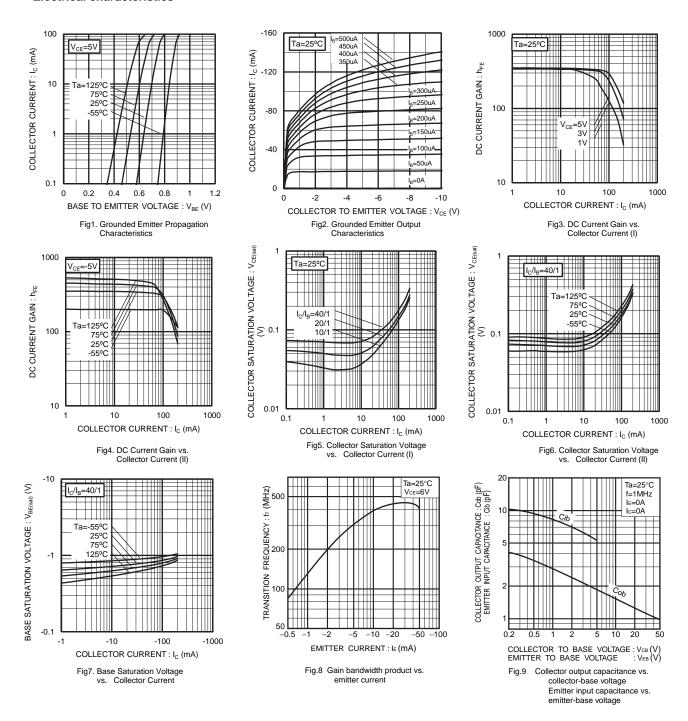
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-emitter breakdown voltage	BVceo	45	-	_	V	Ic= 2mA
Emitter-base breakdown voltage	ВУево	5	_	_	V	Ic= 10μA
Collector-emitter cutoff current	Ices	_	_	0.1	μΑ	Vce= 45V
Emitter-base cutoff current	ІЕВО	_	-	0.1	μΑ	V _{EB} = 4V
Collector-emitter saturation voltage	VCE(sat)1	_	_	0.35	V	Ic/I _B = 10mA/ 0.25mA
	VCE(sat)2	_	-	0.55	V	Ic/I _B = 50mA/ 1.25mA
Base-emitter saturation voltage	VBE(sat)1	_	-	0.85	V	Ic/I _B = 10mA/ 0.25mA
	VBE(sat)2	_	-	1.05	V	Ic/I _B = 50mA/ 1.25mA
Base-emitter voltage	VBE(on)	0.55	-	0.75	V	VcE= 5V, Ic= 2mA
DC current transfer ratio	hFE1	250	-	630		VcE= 5V, Ic= 2mA
	hFE2	90	-	_	_	VcE= 5V, Ic= 50mA
Transition frequency	f⊤	125	-	_	MHz	VcE= 5V, IE= 10mA, f=100MHz
Collector output capacitance	Cob	_	_	4.5	pF	Vcb= 10V, f=1MHz, IE=0A
Noise figure	NF		_	6	dB	Vce= 5V, Ic= 200 μ A, f=1kHz,Rg=2k Ω
Collector-base cutoff current	Ісво	_	_	20	μΑ	V _{CB} = 45V, Та=150°С

This parts are classified into the categories below and given hee item.

Part. No	BCX70J	BCX70K
hFE1	250 to 460	380 to 630
hFE2	90 or more	125 or more

BCX70J, K Data Sheet

Electrical characteristics



Notes

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