

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

●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	VEBO	5	V
Collector current	lc	0.2	A
Callegter newer discinction	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

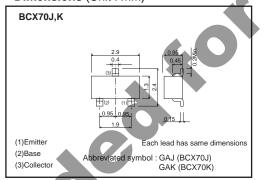
●Electrical characteristics (Ta=25°

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-emitter breakdown voltage	BVceo	45	-1	_	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	V _{BE} (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	V _{BE(on)}	0.55	_	0.75	V	VcE= 5V, Ic= 2mA
DC current transfer ratio	h _{FE1}	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 $\ensuremath{\mathsf{hfE}}$ item.

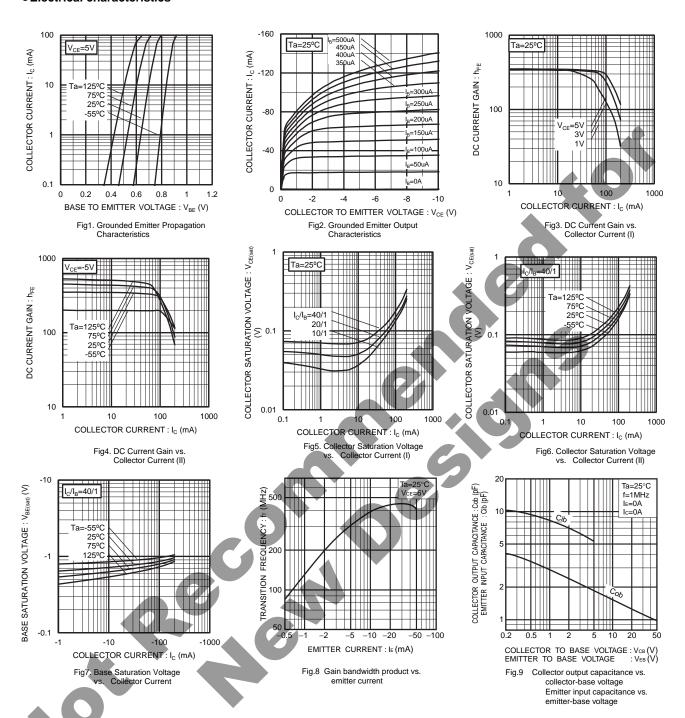
Part. No	BCX70J	BCX70K
hFE1	250 to 460	380 to 630
hFE2	90 or more	125 or more

●Dimensions (Unit: mm)



BCX70J, K Data Sheet

Electrical characteristics



Notes

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