NPN small signal transistor **BCX70J**, **K**

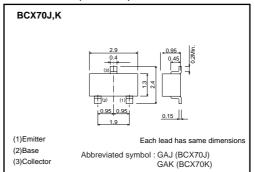
Features

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

Packaging specifications

	Package	Taping
Туре	Code	T116
	Basic ordering unit (pieces)	3000
BCX71J, 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	
Collector newer discinction	D-	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	1	_	0.1	μΑ	VCE= 45V
Emitter-base cutoff current	ІЕВО	ı	_	0.1	μΑ	V _{EB} = 4V
Collector-emitter saturation voltage	VCE(sat)1	ı	_	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
	V _{BE(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	ı	_	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

 $\underline{\text{This}}\ \text{parts}\ \text{are}\ \text{classified}\ \text{into}\ \text{the}\ \text{categ}\\ \text{ories}\ \text{below}\ \text{and}\ \text{given}\ \text{hfe}\ \text{item}.$

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

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