

# NPN small signal transistor

### **BCX19**

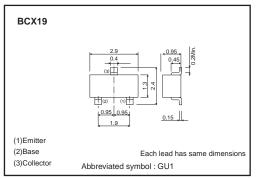
#### Features

- (1) High gain and low saturation voltage.
- (2) Complements the BCX17.

#### Packaging specifications

	Package	Taping	
Туре	Code	T116	
	Basic ordering unit (pieces)	3000	
BCX19	·	0	

#### ●Dimensions (Unit:mm)



#### ● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit	
Collector-emitter voltage (VBE=0)	Vces	50	V	
Collector-emitter voltage (open base)	Vceo	45	V	
Emitter-base voltage	Vево	5	V	
Collector current	lc	0.5	A	
Collector current (peak value)	Ісм	1	А	
		0.2	W	
Collector power dissipation	Pc	0.35	W *	
		0.425	W *2	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-65 to 150	°C	

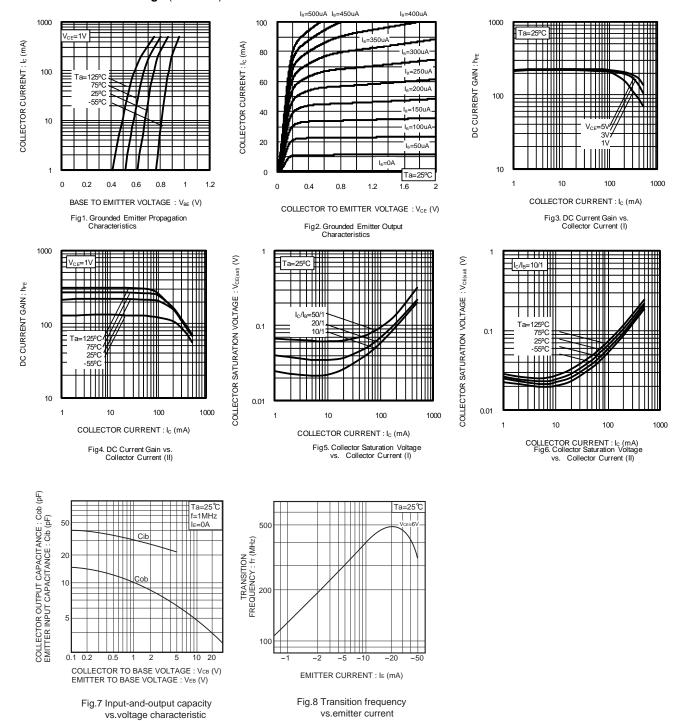
<sup>\*</sup> Mounted on a 7×5×0.6 mm CERAMIC SUBSTRATE

#### ●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-emitter breakdown voltage	BVces	50	-	_	V	Ic= 50μA
Collector-emitter breakdown voltage	BVceo	45	_	_	V	Ic= 10mA
Emitter-base breakdown voltage	ВУЕВО	5	_	_	V	Iε= 50μA
Collector-base cutoff current	Ісво	_	-	0.1	μΑ	Vcb= 20V
Emitter-base cutoff current	ІЕВО	-	-	10	μΑ	V <sub>EB</sub> = 5V
Collector-emitter saturation voltage	VCE(sat)	_	-	0.62	V	Ic/I <sub>B</sub> = 500mA/ 50mA
Base-emitter voltage	VBE(on)	_	_	1.2	V	VcE= 1V, Ic= 500mA
	hfe	100	-	600	-	VcE= 1V, Ic= 100mA
DC current transfer ratio		70	-	_		VcE= 1V, Ic= 300mA
		40	-	_		VcE= 1V, Ic= 500mA
Transition frequency	f⊤	-	250	_	MHz	VcE= 5V, IE= 20mA, f=100MHz
Collector-base cutoff current	Ісво	_	_	5	μΑ	Vcв= 20V, Та=150°С

<sup>\*2</sup> Mounted on a 15×15×0.6 mm CERAMIC SUBSTRATE

#### ●Absolute maximum ratings (Ta=25°C)



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