

NPN small signal transistor

BCX19

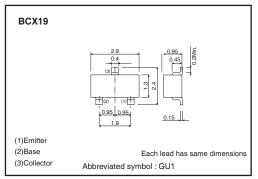
Features

- (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	VEBO	5	V	
Collector current	lc	0.5	Α	
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	

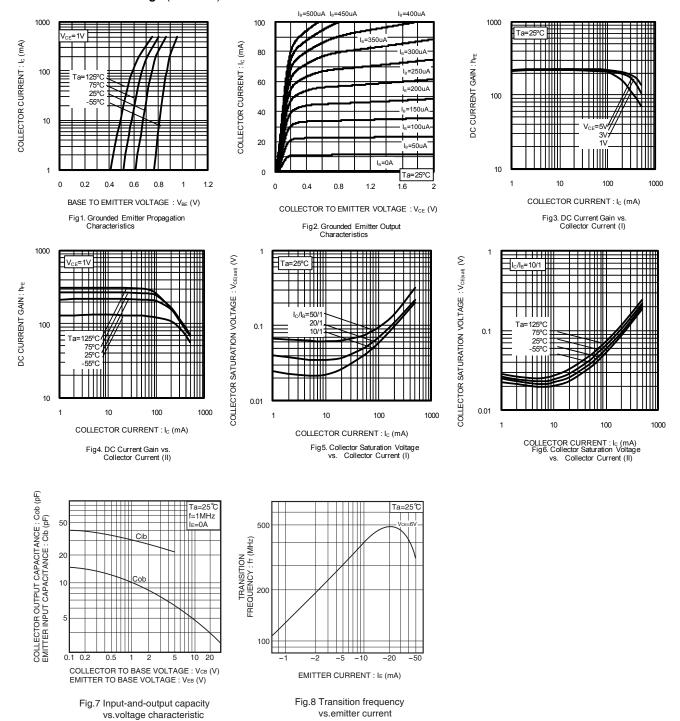
^{*} Mounted on a 7×5×0.6 mm CERAMIC SUBSTRATE

●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 _{EB} = 5V		
Collector-emitter saturation voltage	VCE(sat)	_	_	0.62	V	Ic/I _B = 500mA/ 50mA		
Base-emitter voltage	V _{BE(on)}	_	_	1.2	V	VcE= 1V, Ic= 500mA		
		100	_	600		VcE= 1V, Ic= 100mA		
DC current transfer ratio	hfe	70	_	_	_	VcE= 1V, Ic= 300mA		
		40	_	_		VcE= 1V, Ic= 500mA		
Transition frequency	f⊤	_	250	_	MHz	Vc= 5V, I= 20mA, f=100MHz		
Collector-base cutoff current	Ісво	_	_	5	μΑ	Vcв= 20V, Та=150°С		

^{*2} Mounted on a 15×15×0.6 mm CERAMIC SUBSTRATE

●Absolute maximum ratings (Ta=25°C)



Notes

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