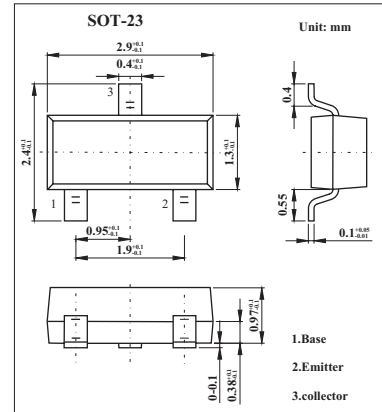


KC818A(BC818A)

■ **Features**

- For general AF applications.
- High collector current.
- High current gain.
- Low collector-emitter saturation voltage.



■ **Absolute Maximum Ratings** Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CB0}	30	V
Collector-emitter voltage	V _{CEO}	25	V
Emitter-base voltage	V _{EBO}	5	V
Collector current (DC)	I _c	500	mA
Peak collector current	I _{CM}	1	A
Base current	I _B	100	mA
power dissipation	P _D	310	mW
Storage temperature	T _{stg}	-65 to +150	°C
Junction temperature	T _j	150	°C

■ **Electrical Characteristics** Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector-to-base breakdown voltage	V _{CB0}	I _c = 10 μA, I _E = 0	30			V
Collector-to-emitter breakdown voltage	V _{CEO}	I _c = 10 mA, I _B = 0	25			V
Emitter-to-base breakdown voltage	V _{EBO}	I _E = 10 μA, I _C = 0	5			V
Collector cutoff current	I _{CBO}	V _{CB} = 25 V, I _E = 0			100	nA
		V _{CB} = 25 V, I _E = 0, T _A = 150°C			50	μA
Emitter cutoff current	I _{EBO}	V _{EB} = 4 V, I _C = 0			100	nA
DC current gain *	KC818A-16	I _c = 100 mA, V _{CE} = -1 V	100	160	250	
	KC818A-25		160	250	400	
	KC818A-40		250	350	630	
Collector saturation voltage *	V _{CE(sat)}	I _c = 500 mA, I _B = 50 mA			0.7	V
Base to emitter voltage *	V _{BE(sat)}	I _c = 500 mA, I _B = 50 mA			1.2	V
Collector-base capacitance	C _{cb}	V _{CB} = 10 V, f = 1 MHz		6		pF
Emitter-base capacitance	C _{eb}	V _{EB} = 0.5 V, f = 1 MHz		60		pF
Transition frequency	f _T	I _c = 50 mA, V _{CE} = 5 V, f = 100 MHz		170		MHz

* Pulsed: PW ≤ 350 μs, duty cycle ≤ 2%

■ **Marking**

NO.	KC818A-16	KC818A-25	KC818A-40
Marking	6E	6F	6G