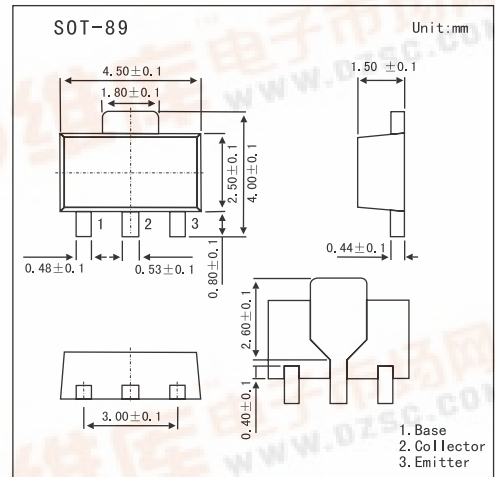


SMD Type Transistors

Small Signal Transistor
2SC3443



Features

- High hFE=150 to 800.
- High collector current (Ic=2A).
- High collector dissipation Pc=500mW.
- Low VCE(sat): VCE(sat)=0.17V typ(@Ic=1A, Ib=50mA).
- Small package for mounting.

Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CB0}	20	V
Emitter-base voltage	V _{EB0}	6	V
Collector-emitter voltage	V _{CEO}	16	V
Peak collector current	I _{CM}	3	A
Collector current	I _C	2	A
Collector dissipation (Ta=25°C)	P _C	500	mW
Junction temperature	T _J	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =10μA, I _E =0	20			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =10μA, I _C =0	6			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =2mA, R _{BE} =∞	16			V
Collector cutoff current	I _{CBO}	V _{CB} =16V, I _E =0			0.2	μA
Emitter cutoff current	I _{EBO}	V _{EB} =4V, I _C =0			0.2	μA
DC current gain	hFE	V _{CE} =4V, I _C =100mA	150		800	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =1A, I _B =50mA		0.17	0.3	V
Gain bandwidth product	f _T	V _{CE} =2V, I _E =-10mA		80		MHz
Collector output capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz		28		pF

hFE Classification

Marking	BE	BF	BG
hFE	150~300	250~500	400~80

