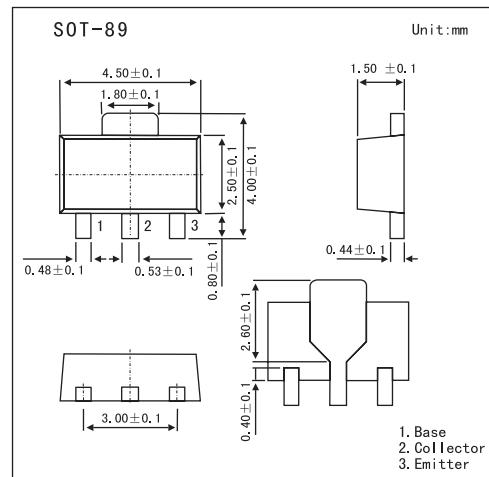


PNP Epitaxial Planar Silicon

2SA1898

■ Features

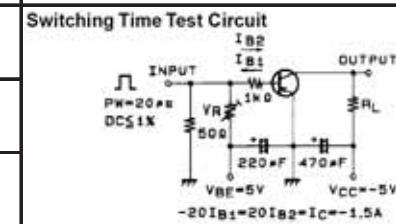
- Adoption of FBET and MBIT processes.
- Large current capacity.
- Low collector-to-emitter saturation voltage.
- Fast switching speed.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	-15	V
Collector-emitter voltage	V _{C EO}	-15	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	I _C	-3	A
Collector current (pulse)	I _{CP}	-5	A
Base current	I _B	-600	mA
Collector dissipation	P _C	1.3	W
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

2SA1898■ Electrical Characteristics $T_a = 25^\circ C$

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = -12V, I_E = 0$			-1	nA
Emitter cutoff current	I_{EBO}	$V_{EB} = -3V, I_C = 0$			-1	nA
DC current Gain	h_{FE}	$V_{CE} = -2V, I_C = -0.5A$	100		280	
Gain bandwidth product	f_T	$V_{CE} = -2V, I_C = -0.3A$		300		MHz
Common base output capacitance	C_{OB}	$V_{CB} = -10V, f = 1MHz$		28		pF
Collector-to-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -1.5A, I_B = -75mA$		-0.25	-0.5	mV
Base-to-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -1.5A, I_B = -75mA$		-0.95	-1.2	V
Collector-to-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -10\mu A, I_E = 0$	-15			V
Collector-to-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -1mA, R_{BE} = \infty$	-15			V
Emitter-to-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -10\mu A, I_C = 0$	-5			V
Turn-on time	t_{on}	Switching Time Test Circuit 		30	60	ns
Storage time	t_{stg}			100	200	ns
Turn-off time	t_{off}			120	220	ns

■ hFE Classification

Marking	AN	
Rank	R	S
hFE	100~200	140~280