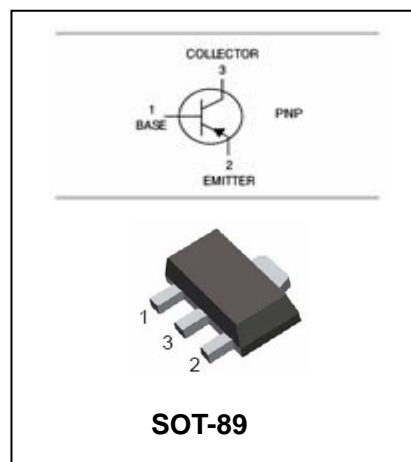


Silicon PNP epitaxial planer type

2SB1218A

FEATURES

- High forward current transfer ratio h_{FE} .
- S-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing.



ORDERING INFORMATION

Type No.	Marking	Package Code
2SB1218A	BQ/BR/BS	SOT-89

MAXIMUM RATING @ $T_a=25^\circ\text{C}$ unless otherwise specified

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-45	V
V_{CEO}	Collector-Emitter Voltage	-45	V
V_{EBO}	Emitter-Base Voltage	-7	V
I_{CP}	Peak collector current	-200	mA
I_C	Collector Current	-100	mA
P_C	Collector power dissipation	150	mW
T_j	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55 to +150	$^\circ\text{C}$



Silicon PNP epitaxial planer type

2SB1218A

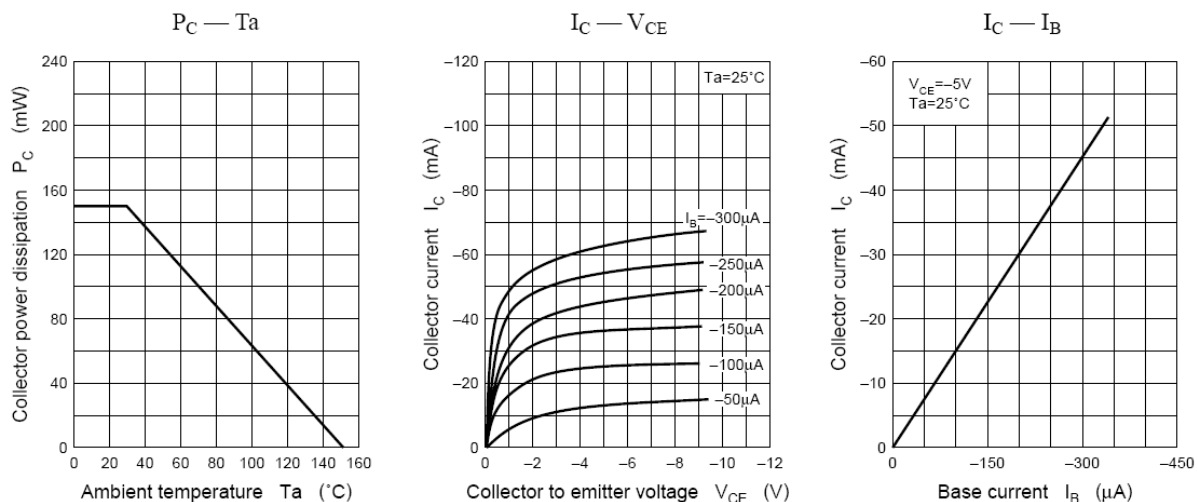
ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -10\mu A$ $I_E = 0$	-45			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -2mA$ $I_B = 0$	-45			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -10\mu A$ $I_C = 0$	-7			V
Collector cut-off current	I_{CBO}	$V_{CB} = -20V$ $I_E = 0$			-0.1	μA
	I_{CEO}	$V_{CE} = -10V$, $I_C = 0$			100	μA
DC current gain	h_{FE}	$V_{CE} = -10V$ $I_C = -2mA$	160		460	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -100mA$ $I_B = -10mA$		-0.3	-0.5	V
Transition frequency	f_T	$V_{CB} = -10V$, $I_E = 1mA$, $f = 200MHz$		80		MHz
Output Capacitance	C_{ob}	$V_{CB} = -10V$ $f = 1.0MHz$ $I_E = 0$		2.7		pF

CLASSIFICATION H_{FE}

Rank	Q	R	S
Range	160-260	210-340	290-460
Marking	BQ	BR	BS

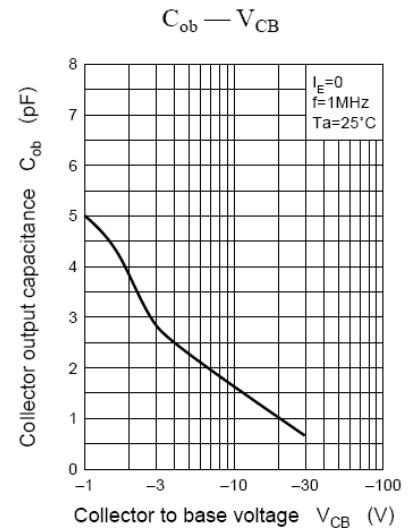
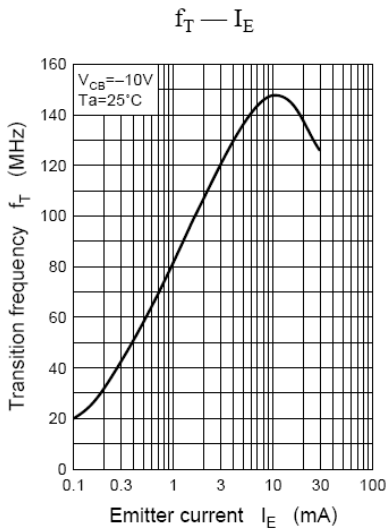
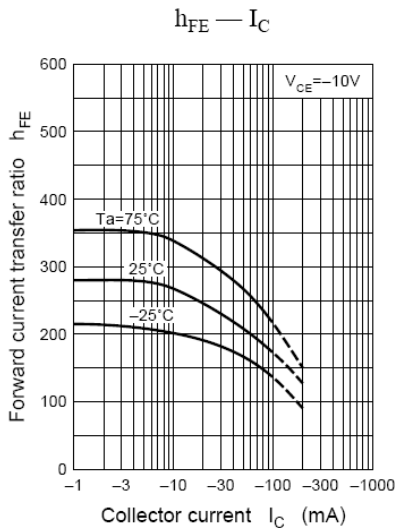
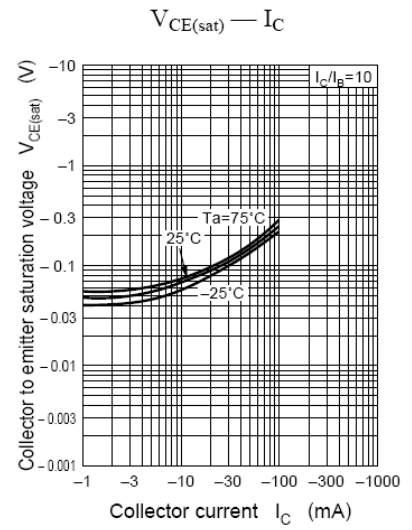
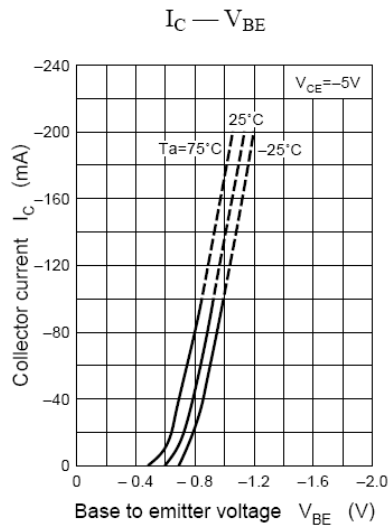
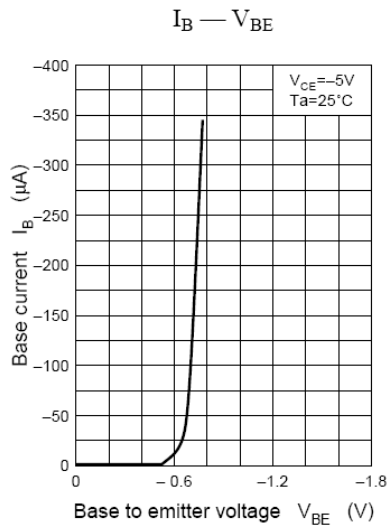
TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified





Silicon PNP epitaxial planer type

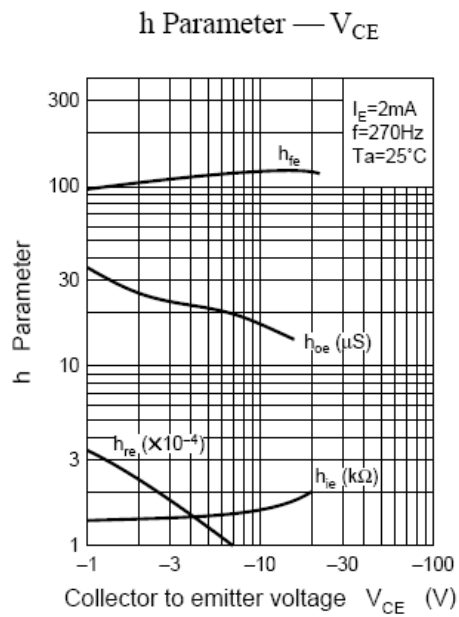
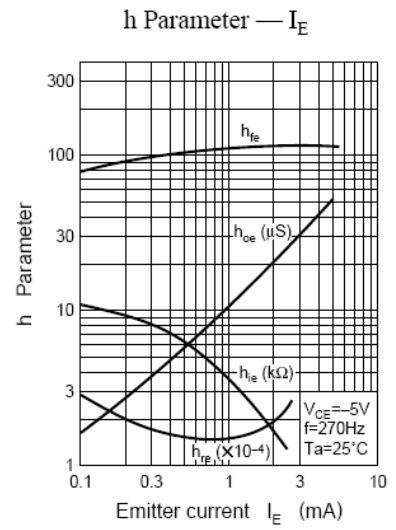
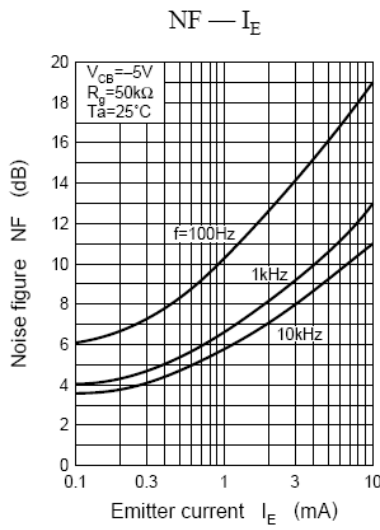
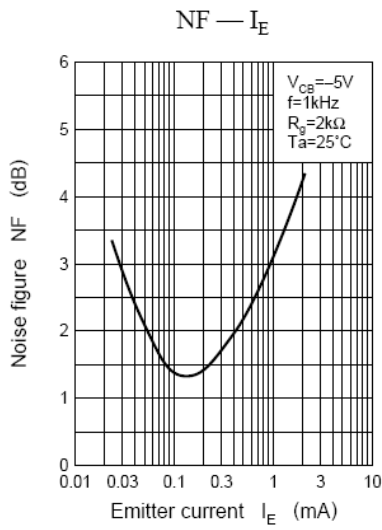
2SB1218A





Silicon PNP epitaxial planer type

2SB1218A



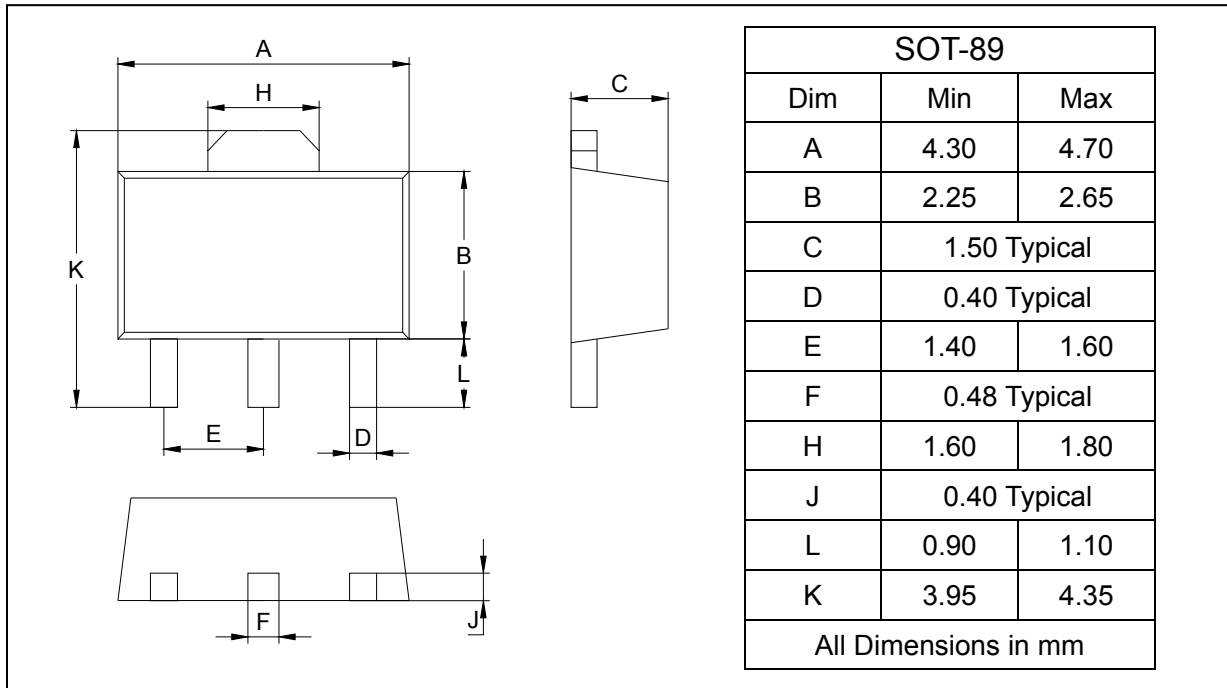
Silicon PNP epitaxial planer type

2SB1218A

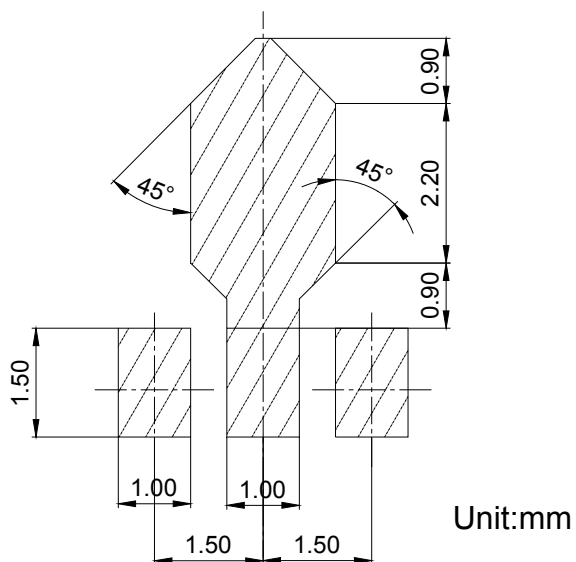
PACKAGE OUTLINE

Plastic surface mounted package

SOT-89



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
2SB1218A	SOT-89	1000/Tape&Reel