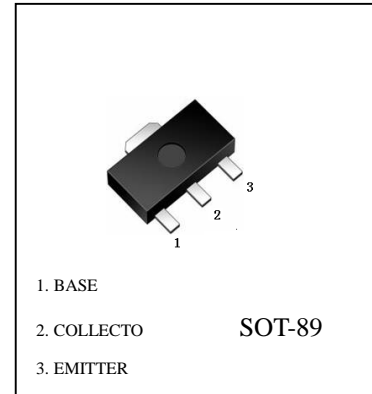


**FEATURES**

- Low  $V_{CE(sat)}$ : -0.2V(Typ)  $I_C/I_B=-500mA/-50mA$
- Compliments 2SD1664

**2SB1132 (PNP)**



**Maximum Ratings (Ta=25 °C unless otherwise noted)**

Parameter	Symbol	Value	Unit
Collector-Base Voltage	$V_{CBO}$	-40	V
Collector-Emitter Voltage	$V_{CEO}$	-32	V
Emitter-Base Voltage	$V_{EBO}$	-5	V
Collector Current -Continuous	$I_C$	-1	A
Collector Power dissipation	$P_C$	500	mW
Junction Temperature	$T_J$	150	°C
Storage Temperature	$T_{stg}$	-55to +150	°C

**ELECTRICAL CHARACTERISTICS ( @ Ta=25 °C unless otherwise specified)**

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{CBO}$	$I_C=-50\mu A, I_E=0$	-40			V
Collector-emitter breakdown voltage	$V_{CEO}$	$I_C=-1mA, I_B=0$	-32			V
Emitter-base breakdown voltage	$V_{EBO}$	$I_E=-50\mu A, I_C=0$	-5			V
Collector cut-off current	$I_{CBO}$	$V_{CB}=-20V, I_E=0$			-0.5	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=-4V, I_C=0$			-0.5	$\mu A$
DC current gain	$h_{FE}$	$V_{CE}=-3V, I_C=-100mA$	82		390	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-500mA, I_B=-50mA$		-0.2	-0.5	V
Transition frequency	$f_T$	$V_{CE}=-5V, I_C=-50mA, f=30MHz$		150		MHz
Collector output capacitance	$C_{ob}$	$V_{CB}=-10V, I_E=0, f=1MHz$		20	30	pF

**CLASSIFICATION OF  $h_{FE}$**

Rank	P	Q	R
Range	80-180	120-270	180-390
Marking	BAP	BAQ	BAR

2SB1132 Typical Characteristics

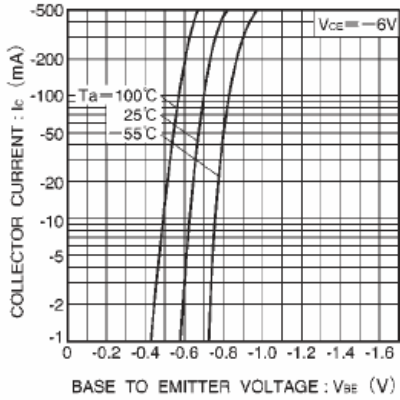


Fig.1 Grounded emitter propagation characteristics

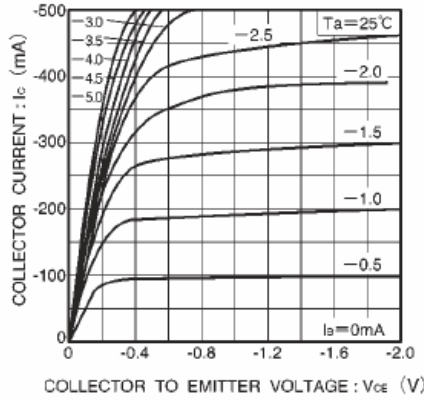


Fig.2 Grounded emitter output characteristics

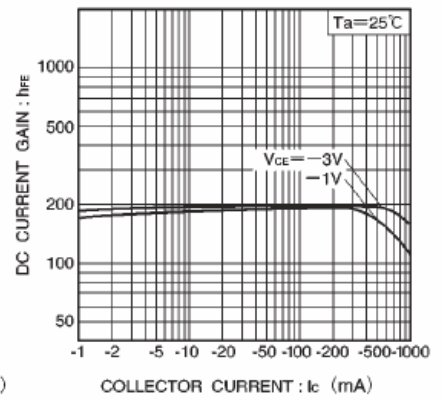


Fig.3 DC current gain vs. collector current ( I )

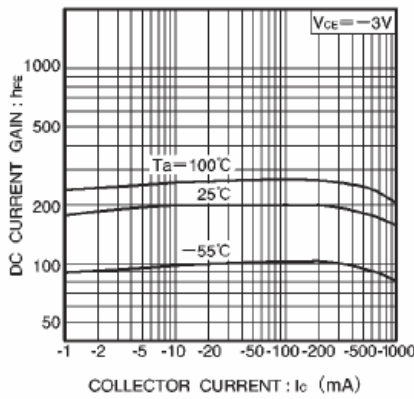


Fig.4 DC current gain vs. collector current ( II )

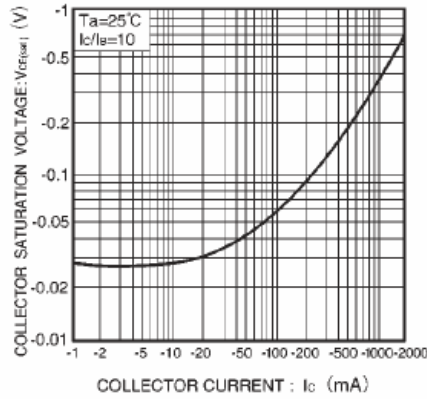


Fig.5 Collector-emitter saturation voltage vs. collector current

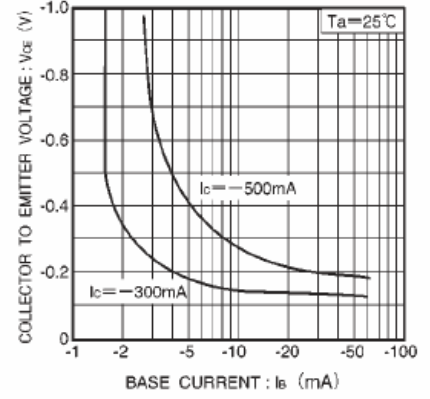


Fig.6 Collector-emitter saturation voltage vs. base current

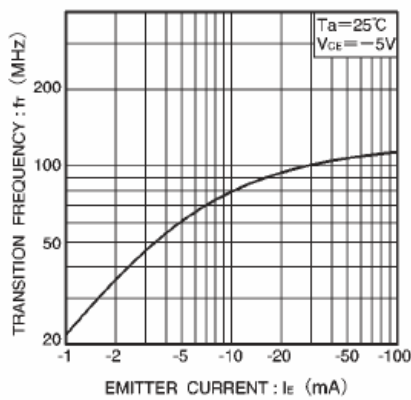


Fig.7 Gain bandwidth product vs. emitter current

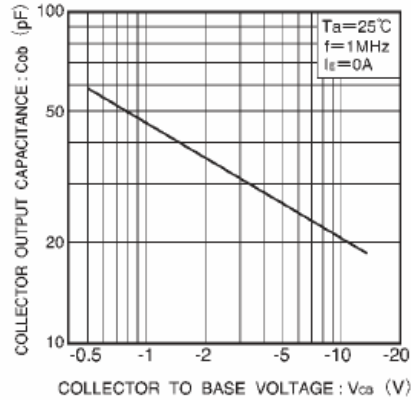


Fig.8 Collector output capacitance vs. collector-base voltage

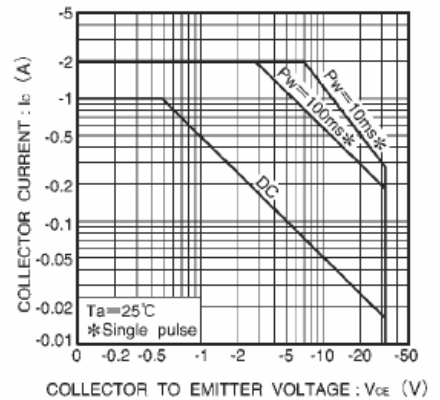


Fig.9 Safe operation area