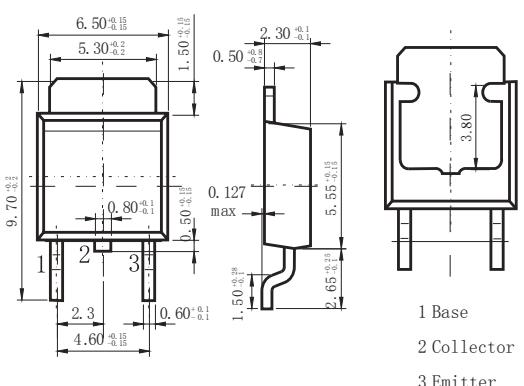


TO-252 Plastic-Encapsulate Transistors
Features

- Low VCE(sat).VCE(sat) = -0.5V
- Complementary to 2SD1758
- PNP Transistors

MECHANICAL DATA

- Case style:SOT-89 molded plastic
- Mounting position:any

TO-252


Unit: mm

 1 Base
 2 Collector
 3 Emitter

MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V _{CBO}	-40	V
Collector - Emitter Voltage	V _{CEO}	-32	
Emitter - Base Voltage	V _{EBO}	-5	
Collector Current - Continuous	I _c	-2	A
Collector current -Pulse	I _{CP}	-3	
Collector Power Dissipation	P _c	10	W
T _c =25°C T _a = 25°C		1	
Junction Temperature	T _J	150	°C
Storage Temperature range	T _{stg}	-55 to 150	

PACKAGE INFORMATION

Device	Package	Shipping
2SB1182	TO-252	2500/Tape&Reel

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V _{CBO}	I _c = -100 μA, I _e =0	-40			V
Collector- emitter breakdown voltage	V _{CEO}	I _c = -1 mA, I _b =0	-32			
Emitter - base breakdown voltage	V _{EBO}	I _e = -100 μ A, I _c =0	-5			
Collector-base cut-off current	I _{CBO}	V _{CB} = -30V , I _e =0			-1	uA
Emitter cut-off current	I _{EBO}	V _{EB} = -4V , I _c =0			-1	
Collector-emitter saturation voltage	V _{CE(sat)}	I _c =-2 A, I _b =-200mA		-0.5	-0.8	V
Base - emitter saturation voltage	V _{BE(sat)}	I _c =-2 A, I _b =-200mA			-1.2	
DC current gain	h _{FE}	V _{CE} = -3V, I _c = -500 mA	120		390	
Collector output capacitance	C _{ob}	V _{CB} = -10V, I _e = 0,f=1MHz		50		pF
Transition frequency	f _T	V _{CE} = -5V, I _e = 500mA,f=100MHz		100		MHz

Classification of h_{FE}

Type	2SB1182-Q	2SB1182-R
Range	120-270	180-390

RATINGS AND CHARACTERISTIC CURVES

■ Typical Characteristics

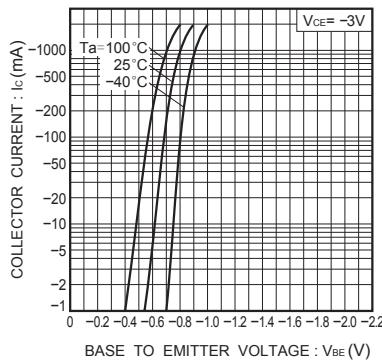


Fig.1 Grounded emitter propagation characteristics

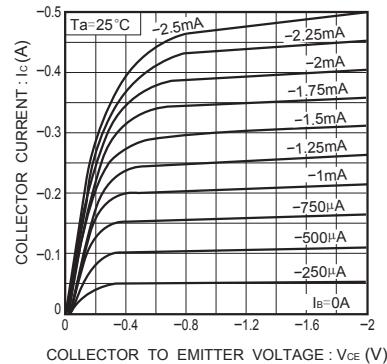


Fig.2 Grounded emitter output characteristics

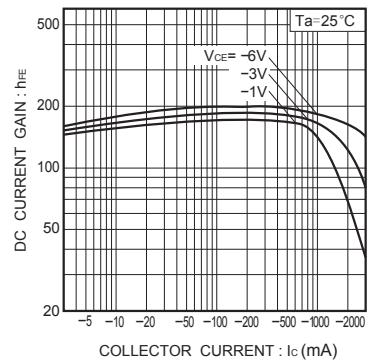


Fig.3 DC current gain vs. collector current (I)

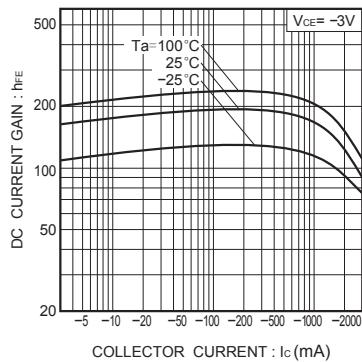


Fig.4 DC current gain vs. collector current (II)

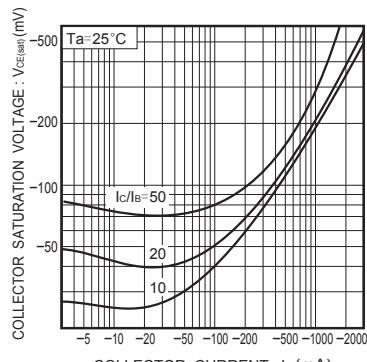


Fig.5 Collector-emitter saturation voltage vs. collector current (I)

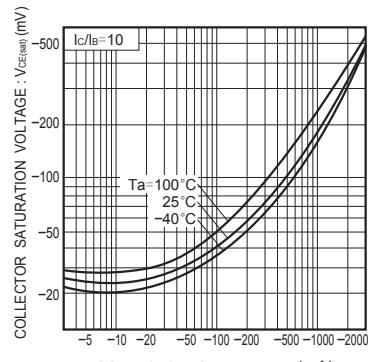


Fig.6 Collector-emitter saturation voltage vs. collector current (II)

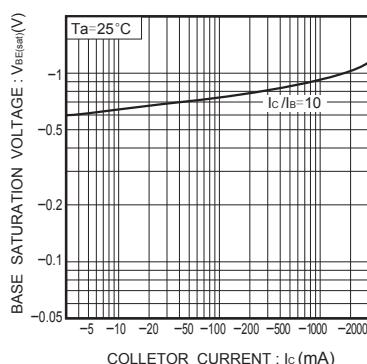


Fig.7 Base-emitter saturation voltage vs. collector current

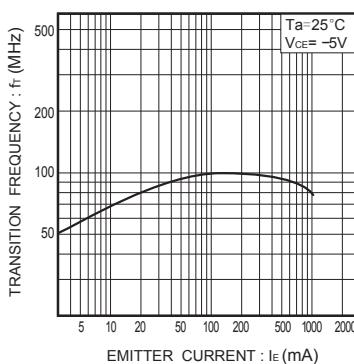


Fig.8 Gain bandwidth product vs. emitter current

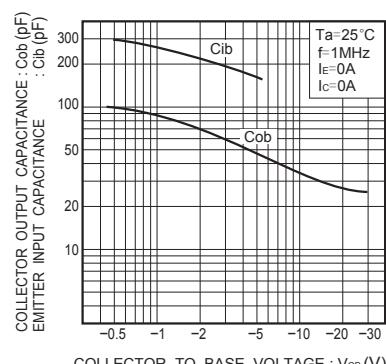


Fig.9 Collector output capacitance vs. collector-base voltage
Emitter input capacitance vs. emitter-base voltage

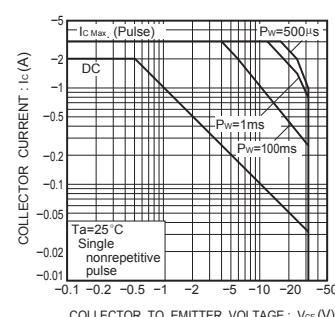


Fig.10 Safe operation area