



SOT-89-3L Plastic-Encapsulate Transistors

2SB1440 TRANSISTOR (PNP)

FEATURES

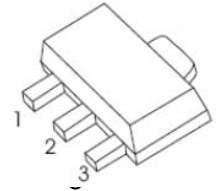
- Low collector-emitter saturation voltage $V_{CE(sat)}$
- For low-frequency output amplification
- Complementary to 2SD2185

MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	-50	V
V _{CEO}	Collector-Emitter Voltage	-50	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current -Continuous	-2	A
P _C	Collector Power Dissipation	500	mW
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~150	°C

SOT-89-3L

1. BASE
2. COLLECTOR
3. EMITTER



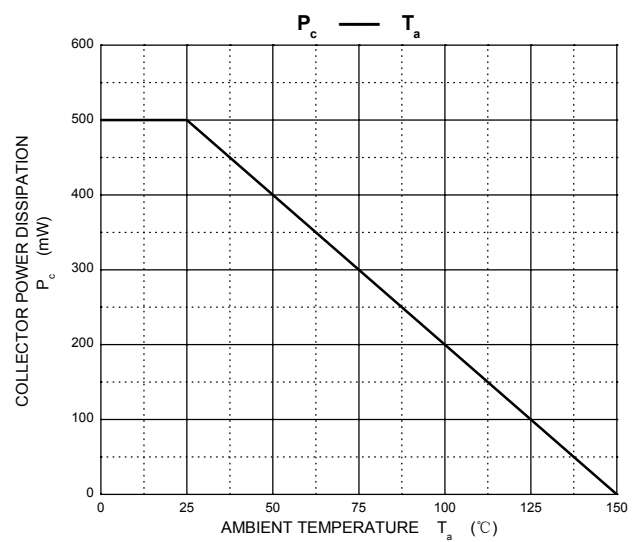
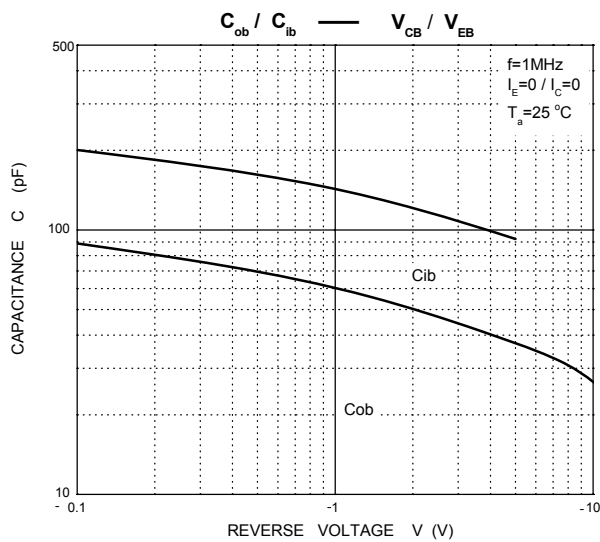
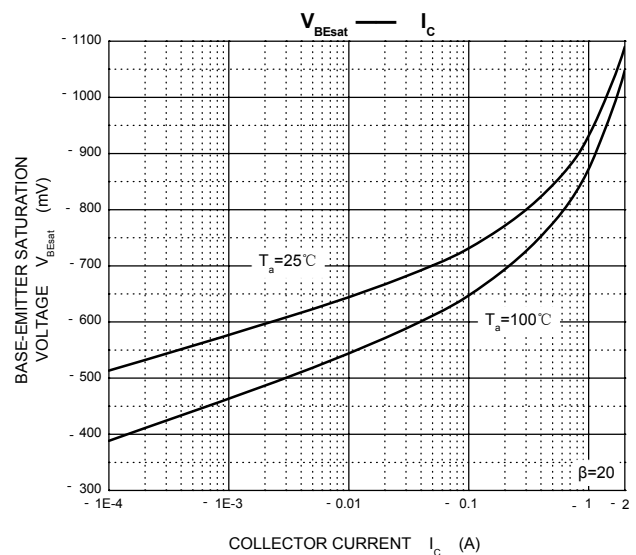
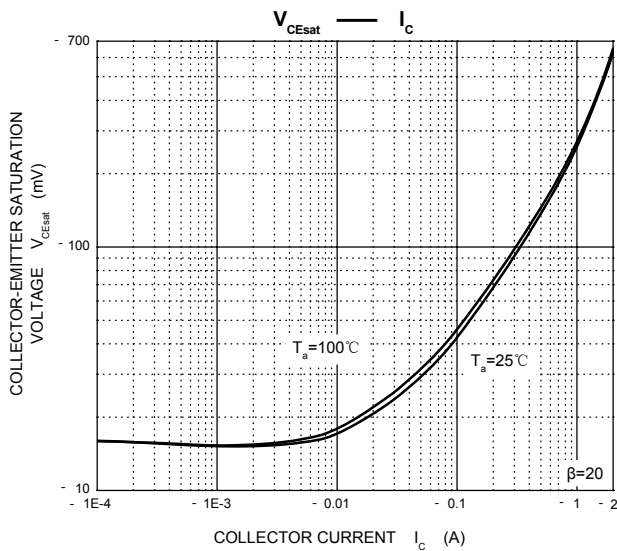
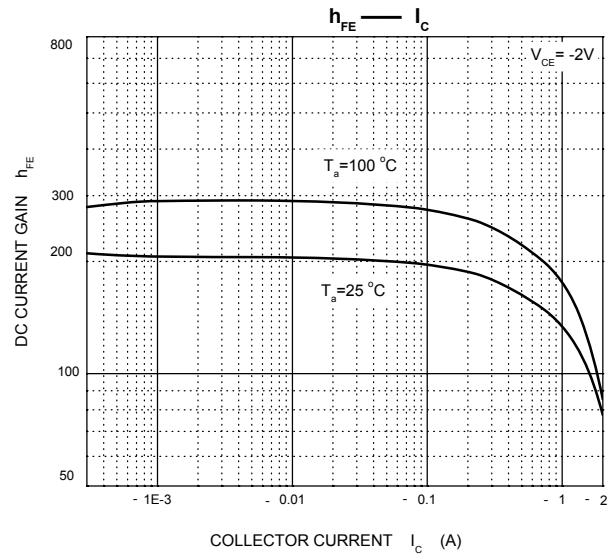
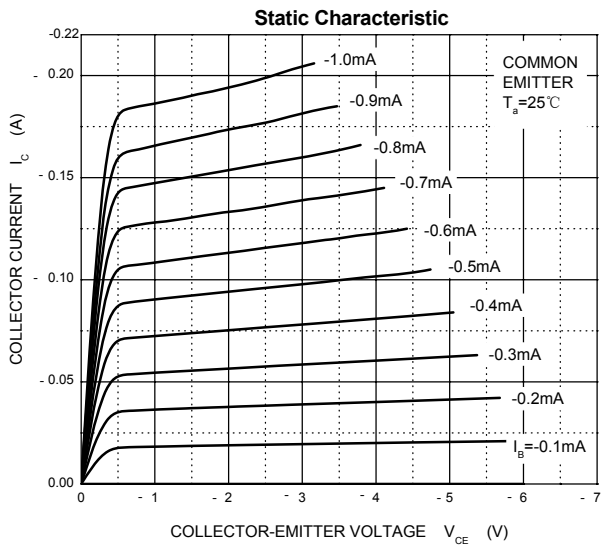
ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-10μA, I _E =0	-50			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-1mA, I _B =0	-50			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-10μA, I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-50V, I _E =0			-1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V, I _C =0			-1	μA
DC current gain	h _{FE1}	V _{CE} =-2V, I _C =-200mA	120		340	
	h _{FE2}	V _{CE} =-2V, I _C =-1A	60			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-1A, I _B =-50mA			-0.3	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =-1A, I _B =-50mA			-1..2	V
Transition frequency	f _T	V _{CE} =-10V, I _C =50mA, f=200MHz		80		MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V, I _E =0, f=1MHz			60	pF

CLASSIFICATION OF h_{FE1}

Rank	R	S
Range	120-240	170-340
Marking	1L	

Typical Characteristics 2SB1440



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