

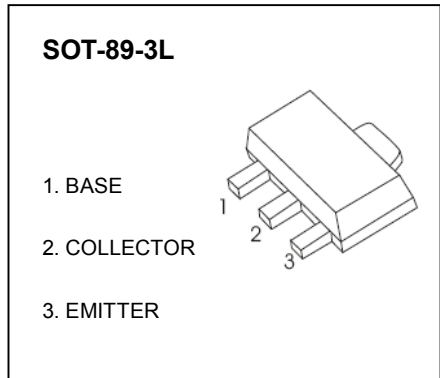


SOT-89-3L Plastic-Encapsulate Transistors

2SB1424 TRANSISTOR (PNP)

FEATURES

- Excellent DC current gain
- Low collector-emitter saturation voltage
- Complement the 2SD2150



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

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	-20	V
V _{CEO}	Collector-Emitter Voltage	-20	V
V _{EBO}	Emitter-Base Voltage	-6	V
I _C	Collector Current	-3	A
P _C	Collector Power Dissipation	500	mW
R _{θJA}	Thermal Resistance From Junction To Ambient	250	°C/W
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~+150	°C

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

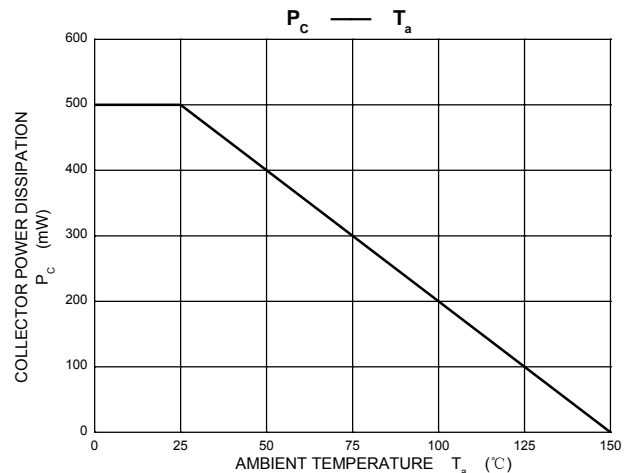
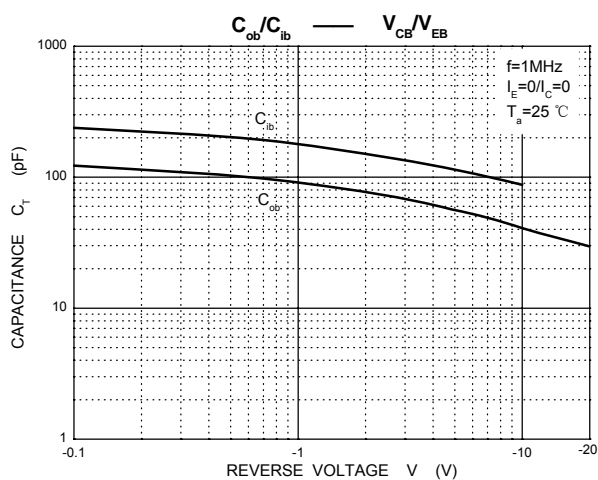
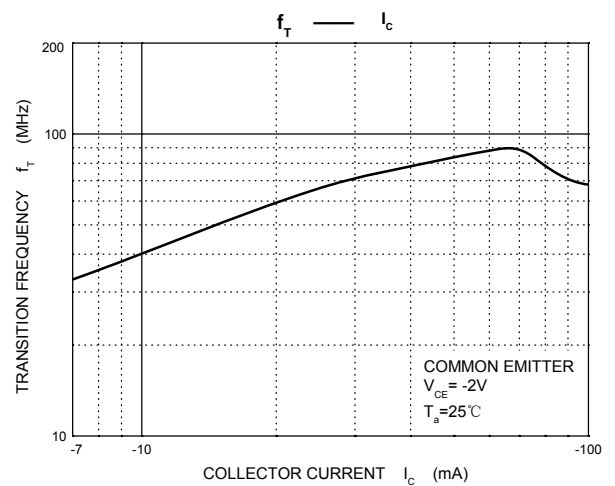
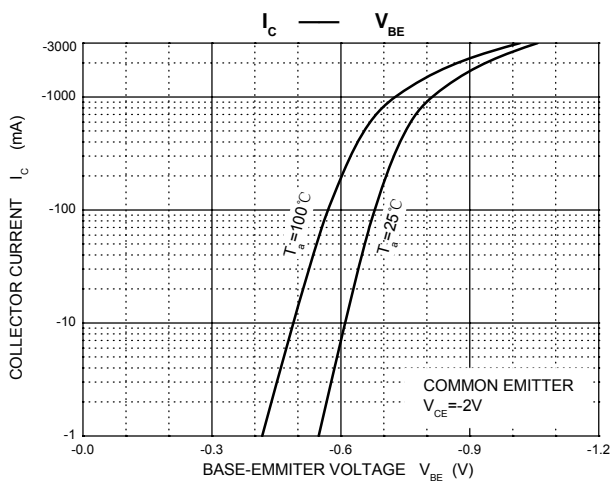
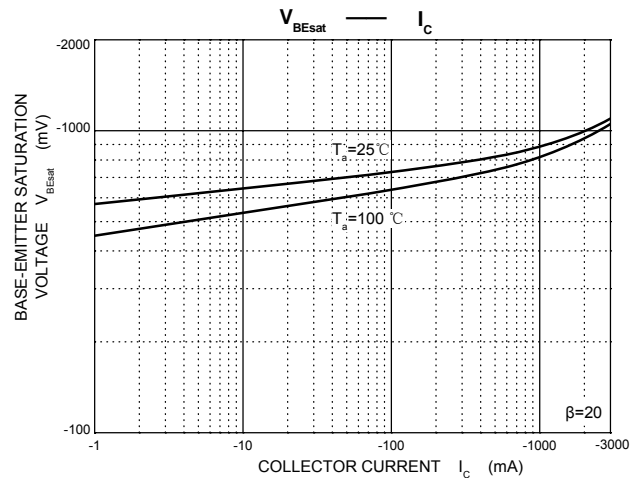
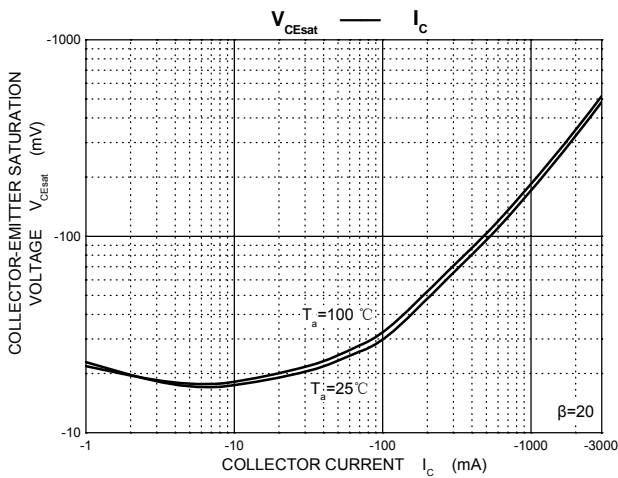
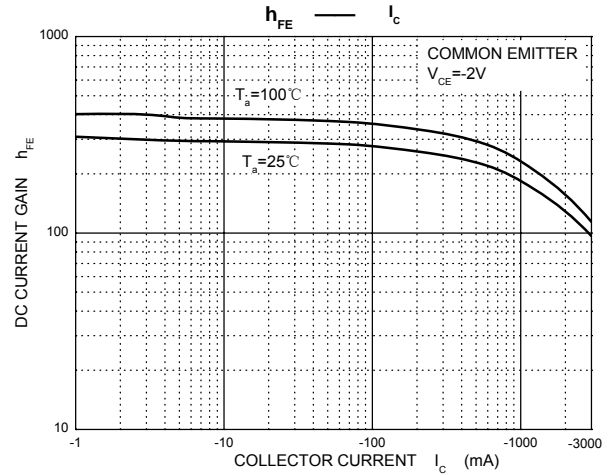
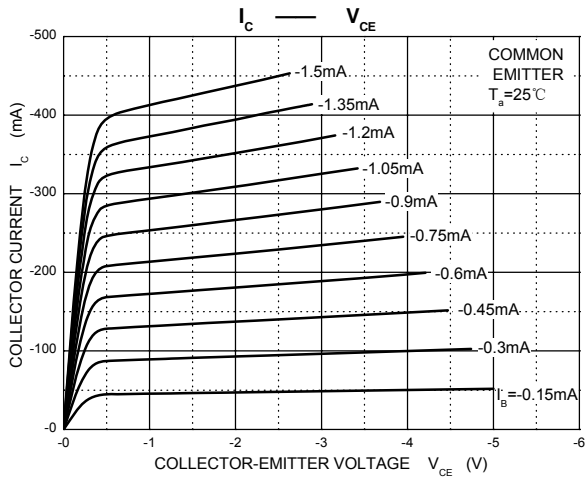
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-50μA, I _E =0	-20			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-1mA, I _B =0	-20			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-50μA, I _C =0	-6			V
Collector cut-off current	I _{CB0}	V _{CB} =-20V, I _E =0			-0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V, I _C =0			-0.1	μA
DC current gain	h _{FE}	V _{CE} =-2V, I _C =-0.1A	120		390	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-2A, I _B =-0.1A			-0.5	V
Collector output capacitance	C _{ob}	V _{CB} =-10V, I _E =0, f=1MHz		35		pF
Transition frequency	f _T	V _{CE} =-2V, I _C =-0.5A, f=100MHz		240		MHz

CLASSIFICATION OF h_{FE}

RANK	Q	R
RANGE	120 - 270	180 - 390
MARKING	AEQ	AER

Typical Characteristics

2SB1424



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