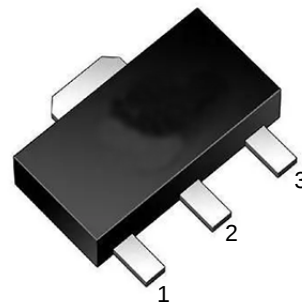


SOT-89-3L Plastic-Encapsulate Transistors

A94 TRANSISTOR (PNP)

• Features

- Complimentary to A44



1. BASE
2. COLLECTOR
3. EMITTER

SOT-89-3L

• MAXIMUM RATINGS (T_C=25°C)

Parameter	Symbol	Limit	Unit
Collector-Base Voltage	V _{CBO}	-400	V
Collector-Emitter Voltage	V _{CEO}	-400	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	I _C	-0.2	A
Collector Current -Pulsed	I _{CM}	-0.3	A
Collector Power Dissipation	P _C	500	mW
Thermal Resistance From Junction To Ambient	R _{θJA}	250	°C/W
Operation Junction and Storage Temperature Range	T _J , T _{stg}	-55~+150	°C

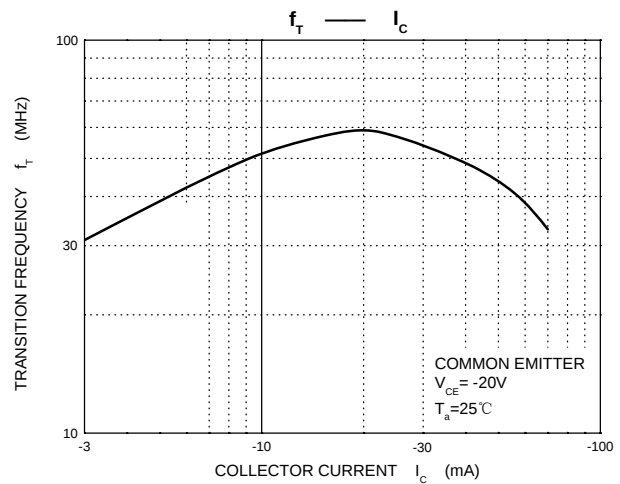
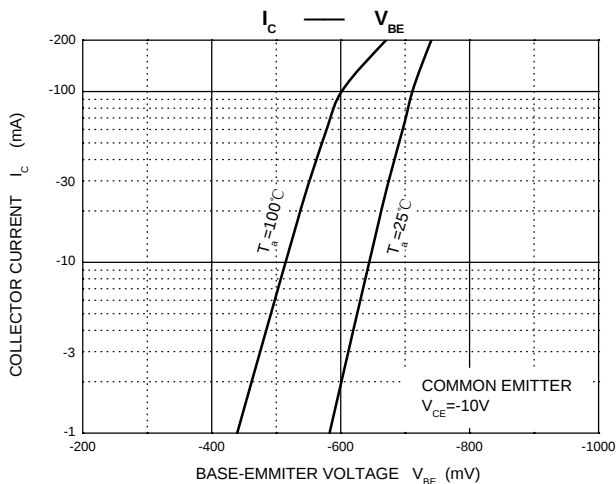
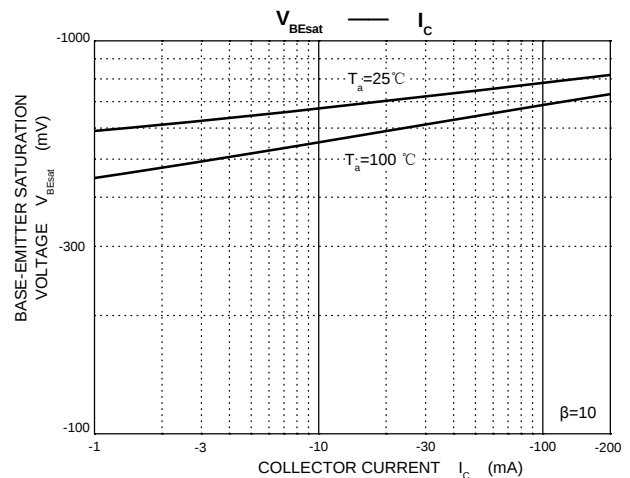
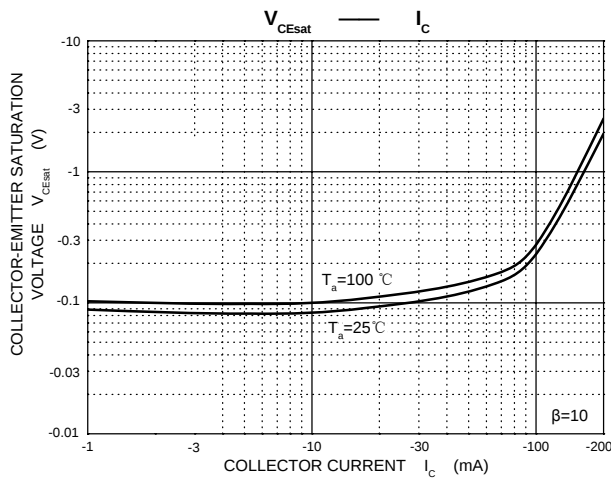
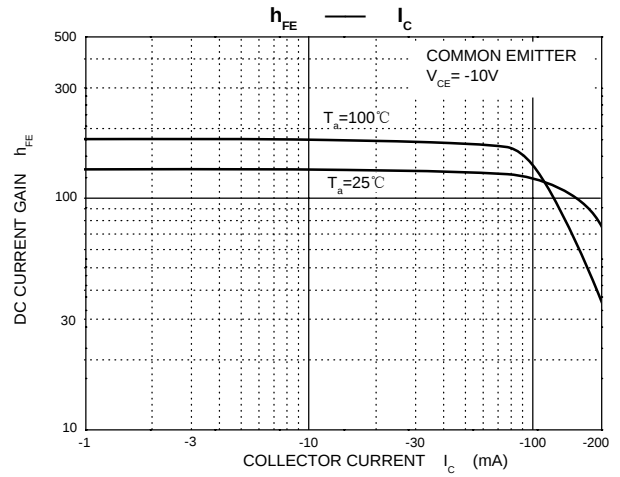
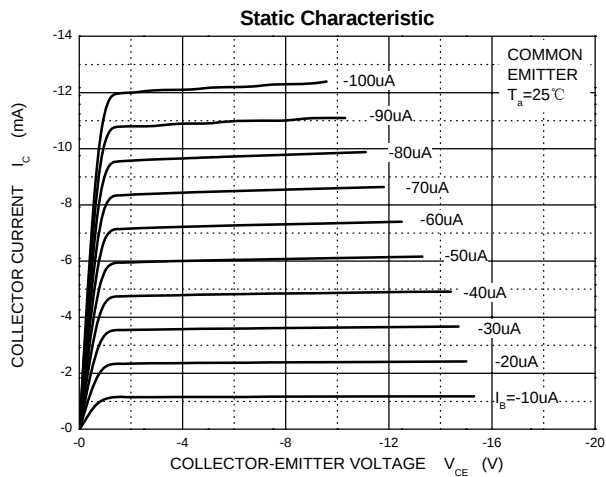
• ELECTRICAL CHARACTERISTICS (T_a=25°C)

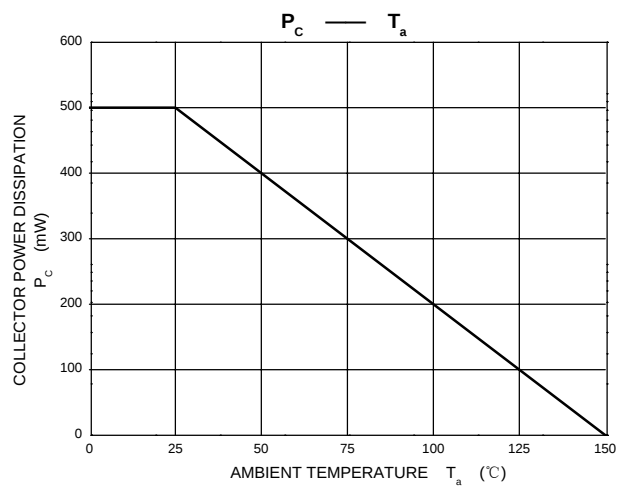
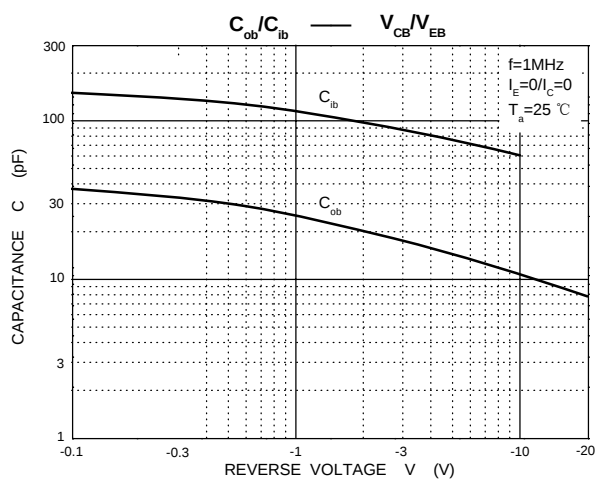
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR) CBO}	I _C = -100μA, I _E =0	-400			V
Collector-emitter breakdown voltage	V _{(BR) CEO}	I _C = -1mA, I _B =0	-400			V
Emitter-base breakdown voltage	V _{(BR) EBO}	I _E =-100μA, I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-400V, I _E =0			-0.1	μA
Collector cut-off current	I _{CEO}	V _{CE} =-400V, I _B =0			-5	μA
Emitter cut-off current	I _{EBO}	V _{EB} = -4V, I _C =0			-0.1	μA
DC current gain	h _{FE(1)}	V _{CE} =-10V, I _C =-10mA	80		300	
	h _{FE(2)}	V _{CE} =-10V, I _C =-1mA	70			
	h _{FE(3)}	V _{CE} =-10V, I _C =-100mA	60			
	h _{FE(4)}	V _{CE} =-10V, I _C =-50mA	80			
Collector-emitter saturation voltage	V _{CE (sat)}	I _C =-10mA, I _B =-1mA			-0.2	V
	V _{CE (sat)}	I _C =-50mA, I _B =-5mA			-0.3	V
Base-emitter saturation voltage	V _{BE (sat)}	I _C =-10mA, I _B = -1mA			-0.75	V
Transition frequency	f _T	V _{CE} =-20V, I _C =-10mA f=30MHz	50			MHz

• Ordering Information:

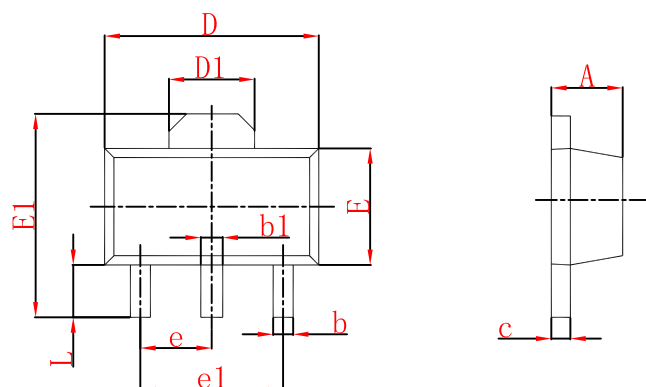
Part NO.	A94
Marking	A94
Packing Information	REEL TAPE
Basic ordering unit (pcs)	1000

• Typical Characteristics

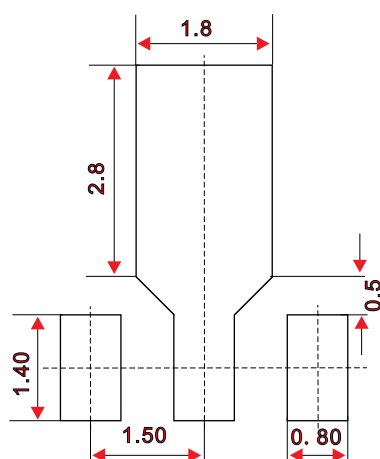




SOT-89-3L Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.400	1.600	0.055	0.063
b	0.320	0.520	0.013	0.020
b1	0.400	0.580	0.016	0.023
c	0.350	0.440	0.014	0.017
D	4.400	4.600	0.173	0.181
D1	1.550 REF.		0.061 REF.	
E	2.300	2.600	0.091	0.102
E1	3.940	4.250	0.155	0.167
e	1.500 TYP.		0.060 TYP.	
e1	3.000 TYP.		0.118 TYP.	
L	0.900	1.200	0.035	0.047



Note:
 1. Controlling dimension: in millimeters.
 2. General tolerance: ± 0.05 mm.
 3. The pad layout is for reference purposes only.