A94

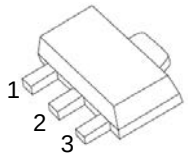
TRANSISTOR (PNP)

FEATURES

High voltage

MARKING : A94

SOT-89-3L



1. BASE
2. COLLECTOR
3. EMITTER

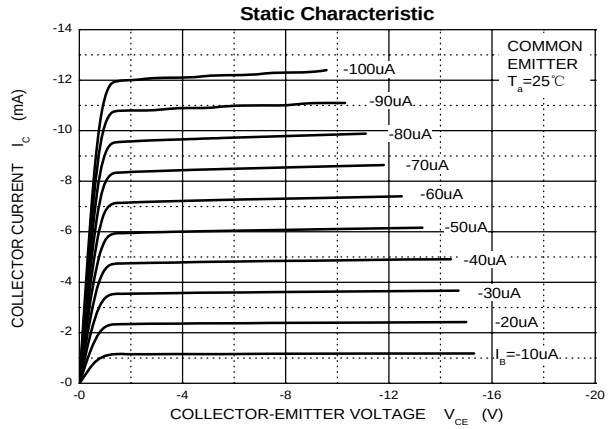
MAXIMUM RATINGS (T_a=25 ℃ unless otherwise noted)

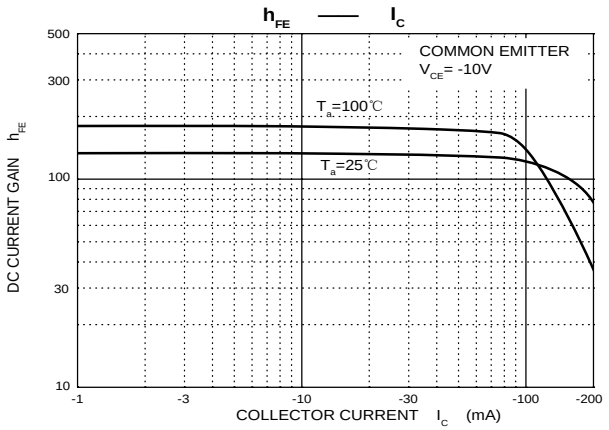
Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-400	V
V_{CEO}	Collector-Emitter Voltage	-400	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current -Continuous	-0.2	A
I_{CM}	Collector Current- Pulsed	-0.3	A
P_C	Collector Power Dissipation	0.5	W
T_J,T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃

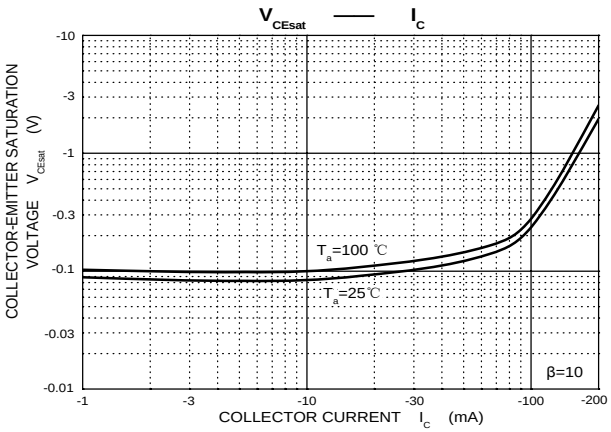
ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise specified)

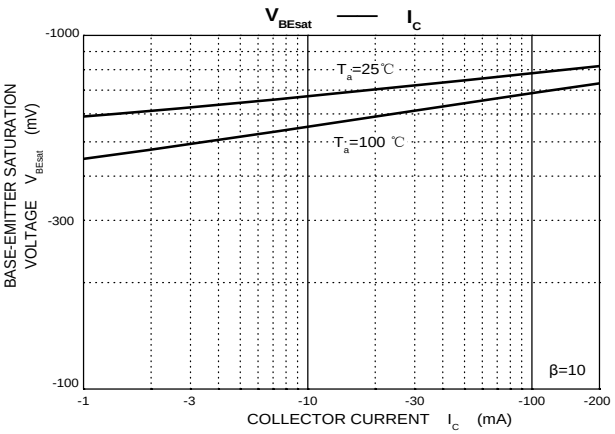
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)\ CBO}$	I_C= -100μA, I_E=0	-400			V
Collector-emitter breakdown voltage	$V_{(BR)\ CEO}$	I_C= -1mA,I_B=0	-400			V
Emitter-base breakdown voltage	$V_{(BR)\ EBO}$	I_E=-100μA,I_C=0	-5			V
Collector cut-off current	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

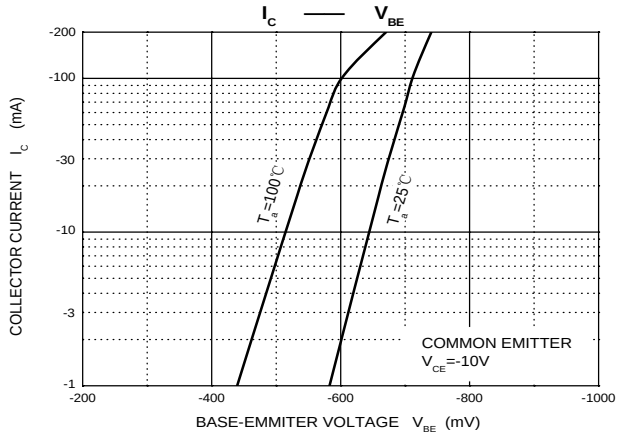
Typical Characteristics

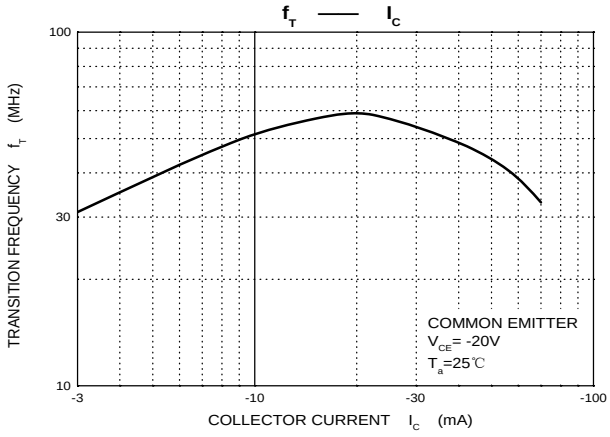


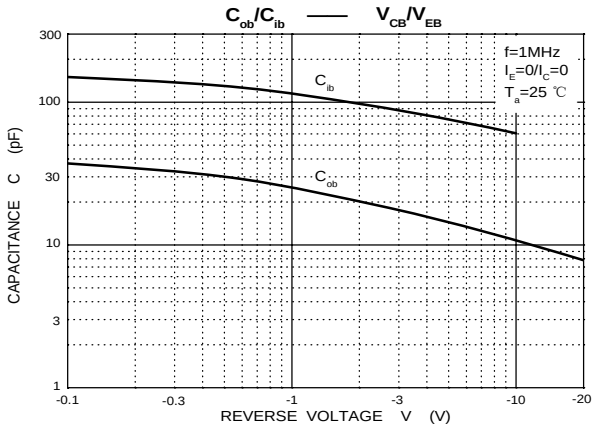


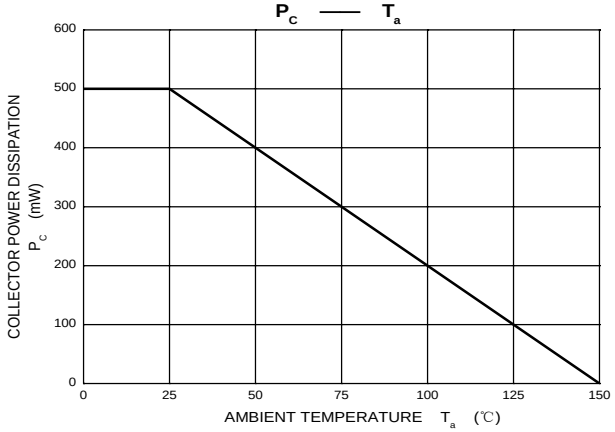




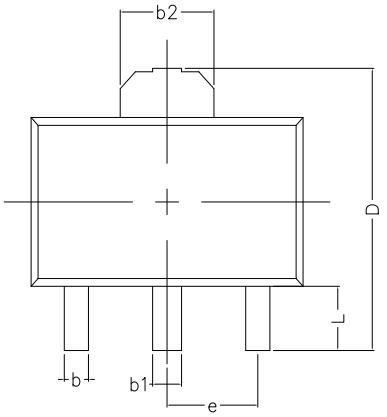




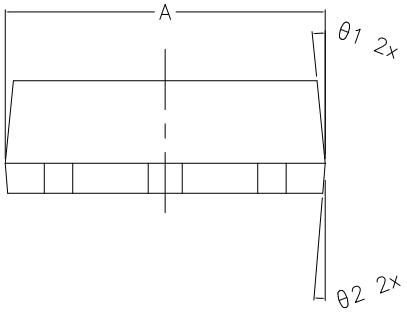


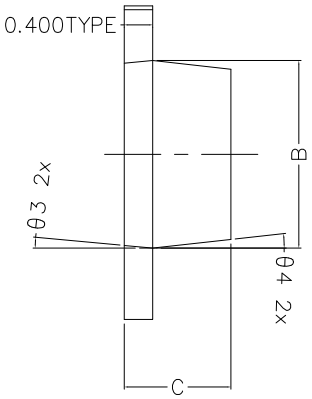


SOT-89 Package Outline Dimensions (Units: mm)



TOP VIEW





COMMON DIMENSIONS (UNITS OF MEASURE IS mm)			
	MIN	NORMAL	MAX
A	4.450	4.550	4.650
B	2.450	2.550	2.650
C	1.400	1.500	1.600
D	4.100	4.200	4.300
L	0.850	0.950	1.050
b	0.350	0.400	0.450
b1	0.430	0.480	0.530
b2	1.500	1.550	1.600
e	1.500TYPE		
θ_1	6° TYPE		
θ_2	5° TYPE		
θ_3	5° TYPE		
θ_4	6° TYPE		