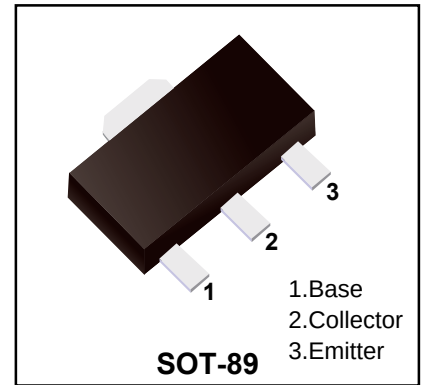


PNP SILICON EPITAXIAL POWER TRANSISTOR

These devices are intended for use in audio frequency power amplifier and low speed switching applications



Absolute Maximum Ratings (Ta = 25 °C)

Parameter	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	-40	V
Collector Emitter Voltage	V_{CEO}	-30	V
Emitter Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-3	A
Peak Collector Current (t = 10 ms)	I_{CP}	-7	A
Base Current	I_B	-0.6	A
Total Power Dissipation @ Ta = 25°C	P_D	1	W
Total Power Dissipation @ Tc = 25°C	P_D	10	W
Operating and Storage Junction Temperature Range	T_J, T_{stg}	- 65 to + 150	°C

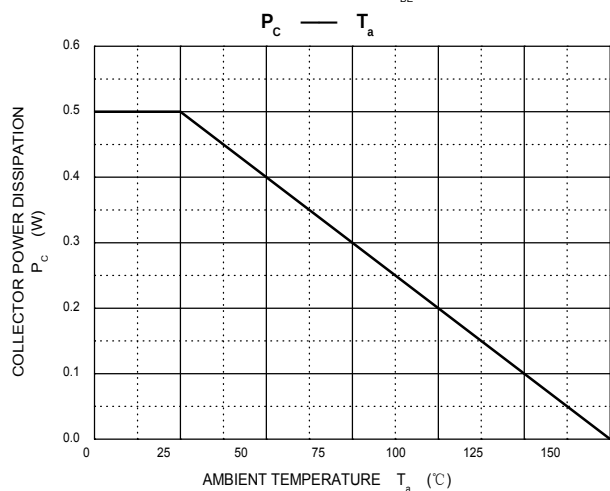
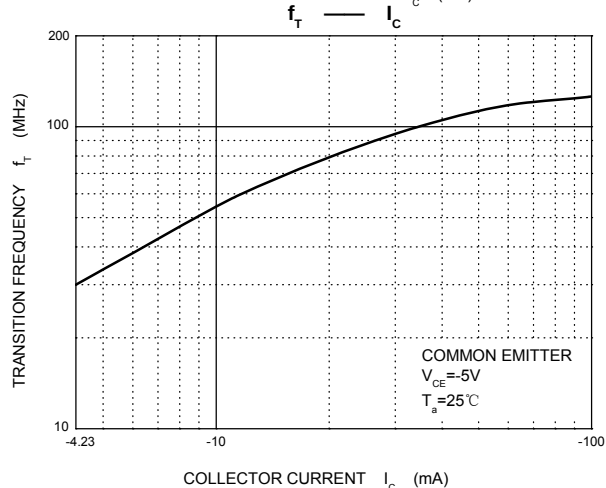
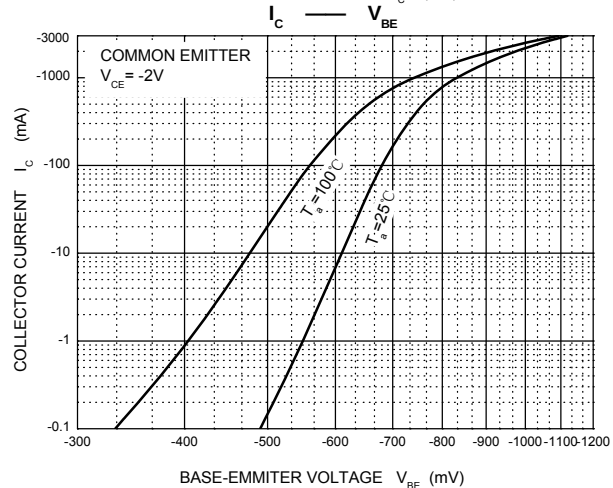
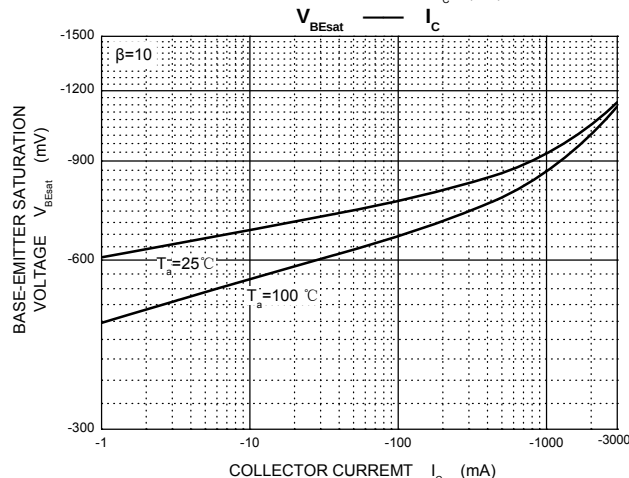
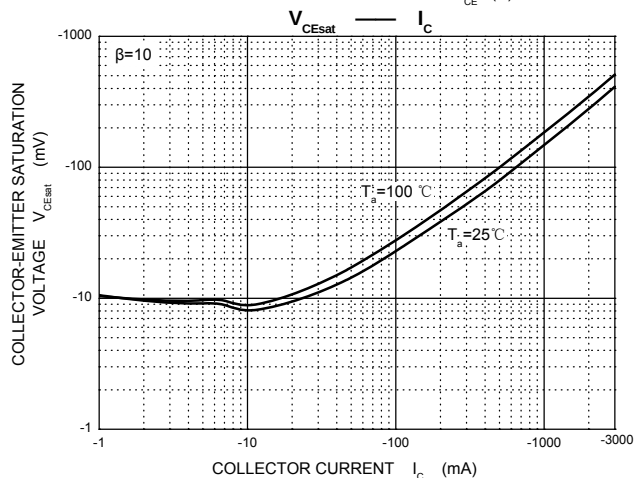
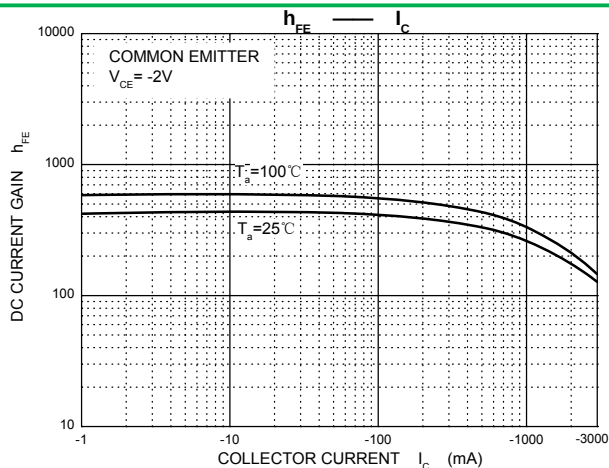
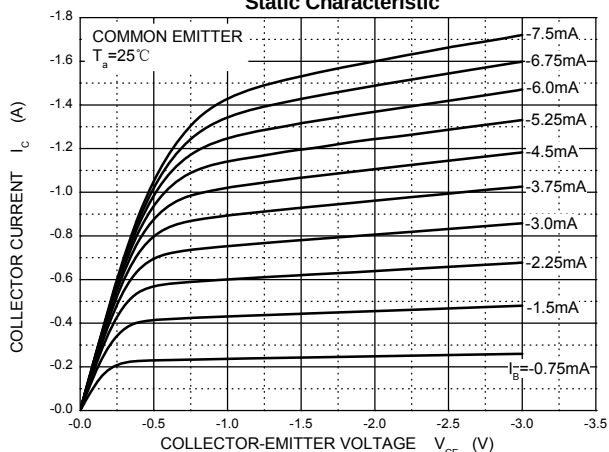
Characteristics at Ta = 25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $-V_{CE} = 2\text{ V}$, $-I_C = 20\text{ mA}$ at $-V_{CE} = 2\text{ V}$, $-I_C = 1\text{ A}$	h_{FE}	30	-	-	-
Current Gain Group	R	60	-	120	
	Q	100	-	200	
	P	160	-	320	
	E	200	-	400	
Collector Base Cutoff Current at $-V_{CB} = 30\text{ V}$	I_{CBO}	-	-	-1	μA
Emitter Base Cutoff Current at $-V_{EB} = 3\text{ V}$	I_{EBO}	-	-	-1	μA
Collector Base Breakdown Voltage at $-I_C = 1\text{ mA}$	$V_{(BR)CBO}$	-40	-	-	V
Collector Emitter Breakdown Voltage at $-I_C = 1\text{ mA}$	$V_{(BR)CEO}$	-30	-	-	V
Emitter Base Breakdown Voltage at $-I_E = 1\text{ mA}$	$V_{(BR)EBO}$	-5	-	-	V
Collector Emitter Saturation Voltage at $-I_C = 2\text{ A}$, $-I_B = 200\text{ mA}$	$V_{CE(sat)}$	-	-	-0.5	V
Base Emitter Saturation Voltage at $-I_C = 2\text{ A}$, $-I_B = 200\text{ mA}$	$V_{BE(sat)}$	-	-	-2	V
Current Gain Bandwidth Product at $-V_{CE} = 5\text{ V}$, $-I_C = 100\text{ mA}$,	f_T	-	80	-	MHz
Output Capacitance at $-V_{CB} = 10\text{ V}$, $f = 1\text{ MHz}$	C_{ob}	-	55	-	pF

CLASSIFICATION OF h_{FE}

RANK	2SB772SI-R	2SB772SI-Q	2SB772SI-P	2SB772SI-E
RANGE	60-120	100-200	160-320	200-400
MARKING	B722R	B772Q	B772	B772E

Static Characteristic



Ordering information

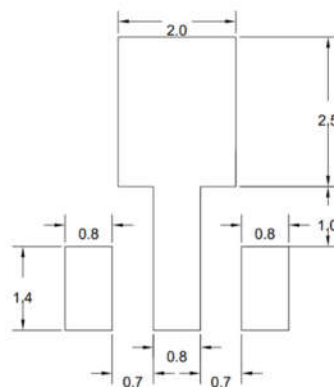
Package	Packing Description	Base Quantity	Packing Quantity
SOT-89	Tape/Reel, 7" reel	1000pcs/Reel	6000PCS/Box 30000PCS/Carton

Package Dimensions

SOT-89

Dim	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	1.40	1.60	0.055	0.063
b	0.32	0.52	0.013	0.020
b1	0.38	0.58	0.015	0.023
c	0.35	0.45	0.014	0.018
D	4.40	4.60	0.173	0.181
D1	1.45	1.65	0.057	0.065
D2	1.70	1.80	0.067	0.071
E	2.30	2.60	0.091	0.102
E1	3.95	4.25	0.156	0.167
E2	1.80	2.00	0.071	0.079
e	1.40	1.60	0.055	0.063
e1	2.80	3.20	0.110	0.126
L	0.90	1.20	0.035	0.047

The recommended mounting pad size



UNIT:MM

Disclaimer

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