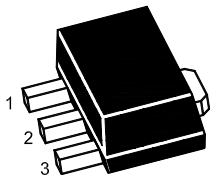


APPLICATIONS

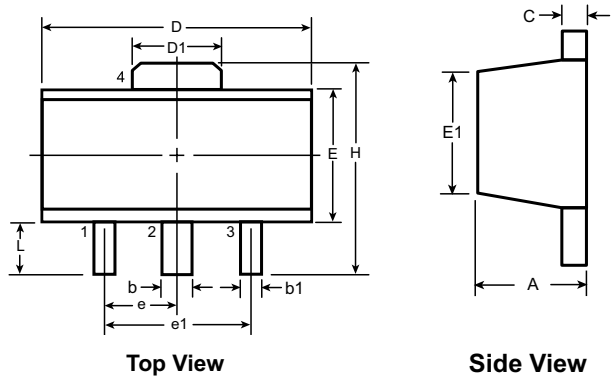
These devices are intended for use in audio frequency power amplifier and low speed switching applications

MARKING: B772



1.Base 2.Collector 3.Emitter
SOT-89 Plastic Package

SOT-89 PACKAGE OUTLINE



Symbol	A	b	b1	C	D	D1	E	E1	e	e1	H	L
Dimensions (mm)	MIN	1.40	0.44	0.36	0.3	4.40	1.50	2.29	2.00 [†]	1.50	3.94	0.89
	NOM	-	-	-	-	-	-	-	-	3.00	-	-
	MAX	1.60	0.56	0.48	0.5	4.60	1.75	2.60	2.29	3.00	4.25	1.20

Dimensions in mm

Absolute Maximum Ratings (T_a = 25 °C)

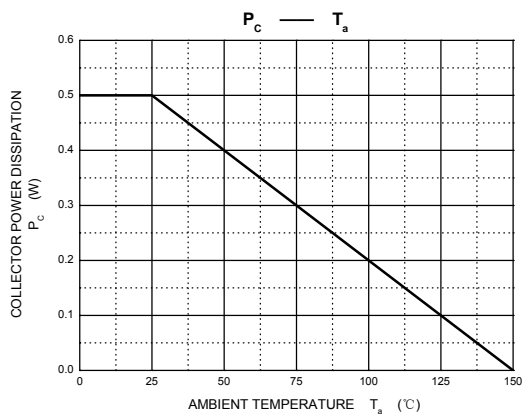
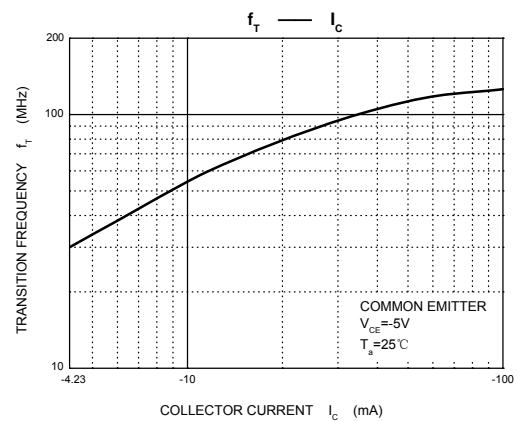
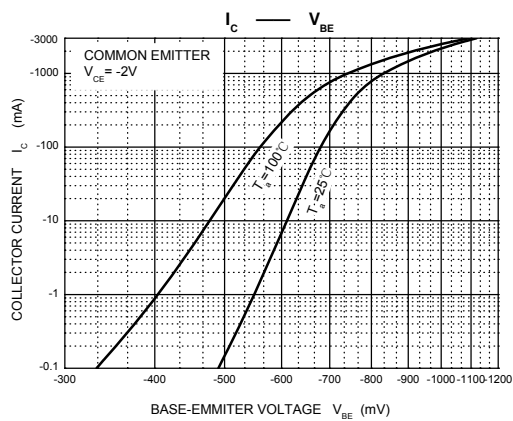
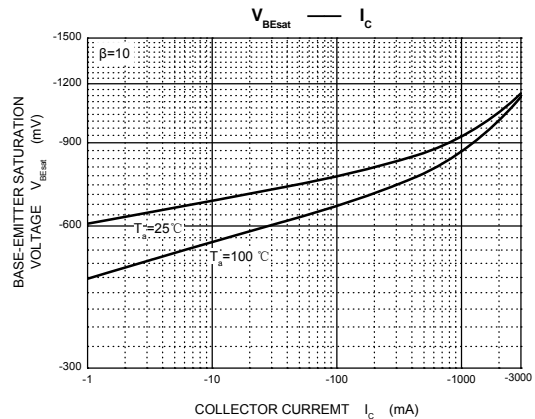
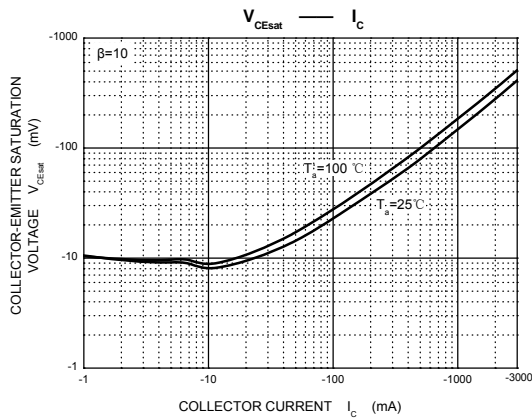
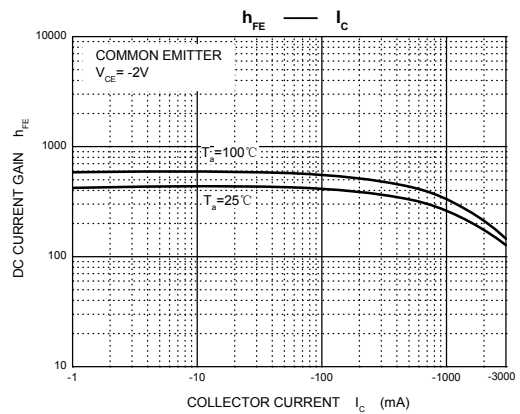
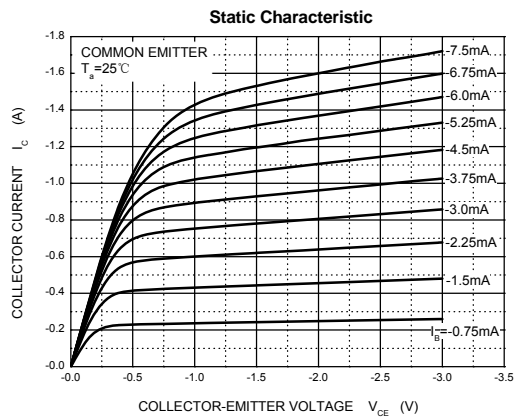
Parameter	Symbol	Value	Unit
Collector Base Voltage	-V _{CB0}	40	V
Collector Emitter Voltage	-V _{CEO}	30	V
Emitter Base Voltage	-V _{EBO}	5	V
Collector Current	-I _C	3	A
Peak Collector Current (t = 10 ms)	-I _{CP}	7	A
Base Current	-I _B	0.6	A
Total Power Dissipation @ T _a = 25 °C	P _D	1	W
Total Power Dissipation @ T _c = 25 °C	P _D	10	W
Operating and Storage Junction Temperature Range	T _J , T _{stg}	- 65 to + 150	°C

B772

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain					
at $-V_{CE} = 2\text{ V}$, $-I_C = 20\text{ mA}$	h_{FE}	30	-	-	-
at $-V_{CE} = 2\text{ V}$, $-I_C = 1\text{ A}$	h_{FE}	60	-	120	-
Current Gain Group	R	100	-	200	-
	Q	160	-	320	-
	P	200	-	400	-
	E				
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

RATING AND CHARACTERISTIC CURVES (B772)



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