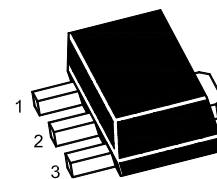


PNP SILICON EPITAXIAL POWER TRANSISTOR

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

Absolute Maximum Ratings (T_a = 25 °C)

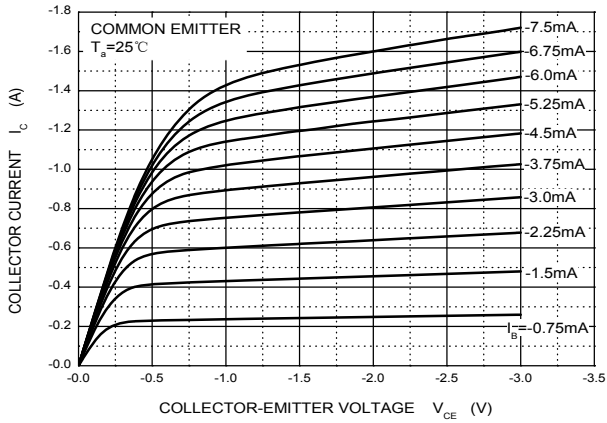
Parameter	Symbol	Value	Unit
Collector Base Voltage	$-V_{CB0}$	40	V
Collector Emitter Voltage	$-V_{CEO}$	30	V
Emitter Base Voltage	$-V_{EBO}$	5	V
Collector Current	$-I_C$	3	A
Peak Collector Current (t = 10 ms)	$-I_{CP}$	7	A
Base Current	$-I_B$	0.6	A
Total Power Dissipation @ T _a = 25 °C	P _D	1	W
Total Power Dissipation @ T _c = 25 °C	P _D	10	W
Operating and Storage Junction Temperature Range	T _j , T _{stg}	- 55 to + 150	°C

Characteristics at T_a = 25 °C

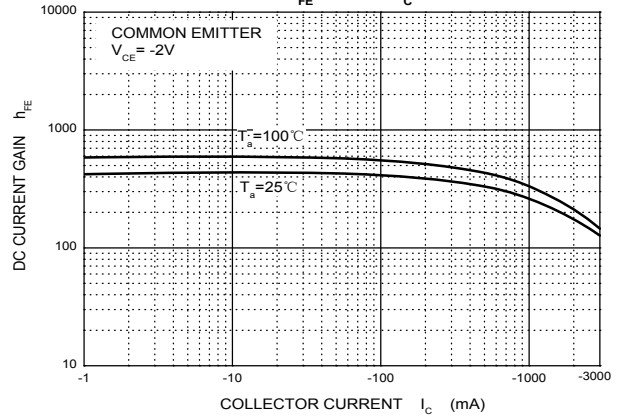
Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $-V_{CE} = 2$ V, $-I_C = 20$ mA at $-V_{CE} = 2$ V, $-I_C = 1$ A Current Gain Group	R	30	-	-	-
	O	60	-	120	-
	Y	100	-	200	-
		160	-	320	-
	GR	200	-	400	-
Collector Base Cutoff Current at $-V_{CB} = 30$ V	$-I_{CBO}$	-	-	1	μA
Emitter Base Cutoff Current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



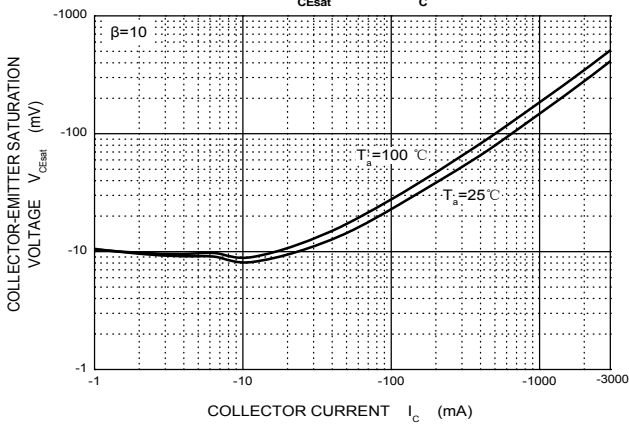
Static Characteristic



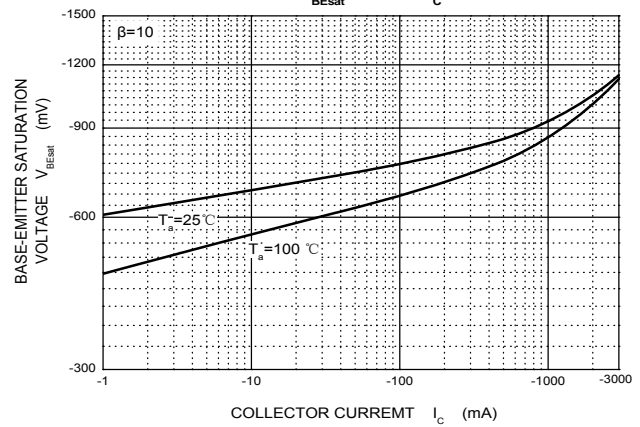
h_{FE} — I_C



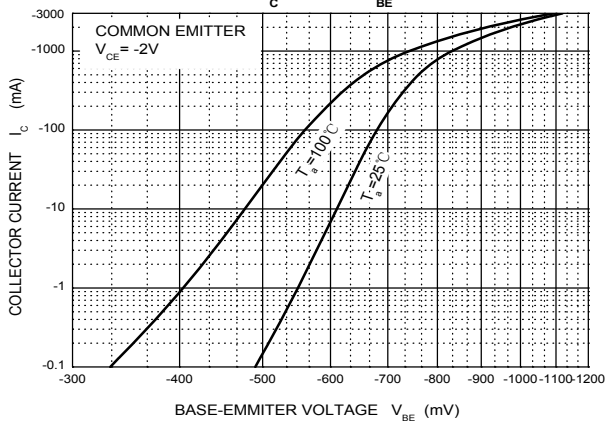
V_{CEsat} — I_C



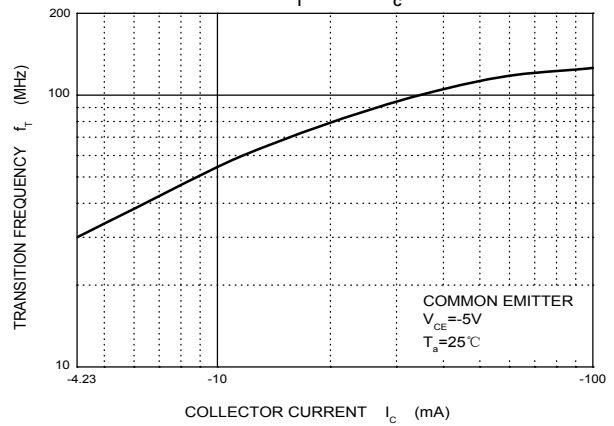
V_{BEsat} — I_C



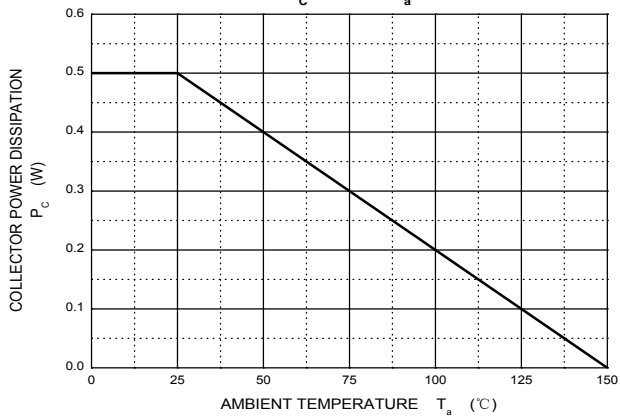
I_C — V_{BE}



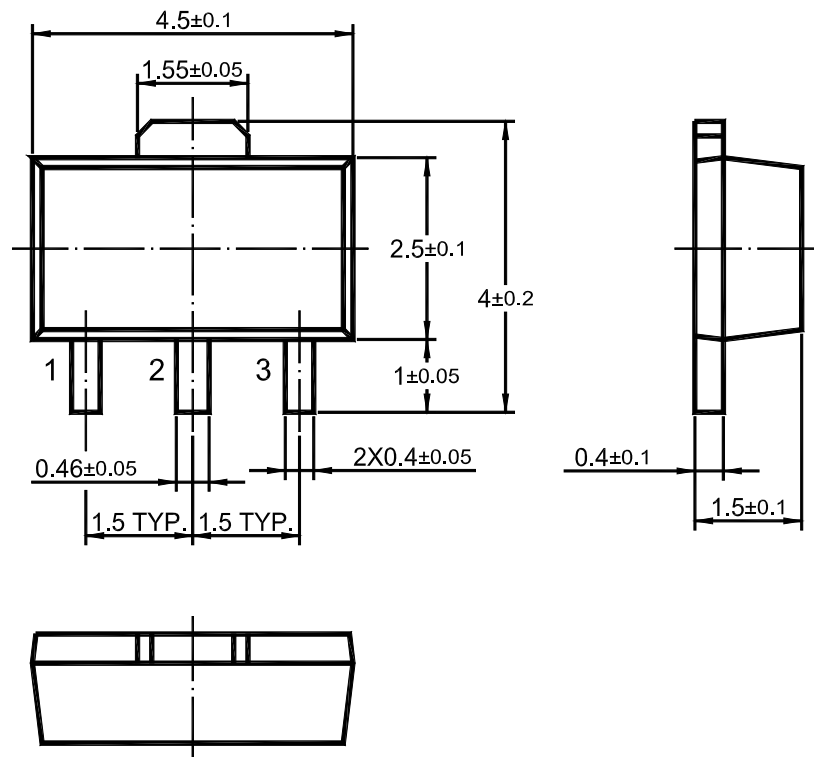
f_T — I_C



P_C — T_a



SOT-89 PACKAGE OUTLINE



Dimensions in mm



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