Elektronische Bauelemente

B772C

-3A , -40V

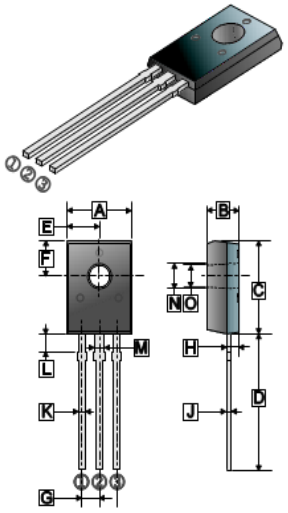
PNP Plastic Encapsulated Transistor

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Low frequency power amplifier
- High Current
- Low Speed Switching

TO-126C



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	7.80	8.20	H	0.80	1.60
B	3.00	3.40	J	0.45	0.60
C	10.80	11.20	K	0.66	0.86
D	15.30	15.70	L	1.30	1.50
E	3.90	4.10	M	1.17	1.37
F	4.04	4.24	N	3.10	3.30
G	2.28 TYP.		O	2.70	2.90

CLASSIFICATION OF h_{FE}

Product-Rank	B772C-R	B772C-O	B772C-Y	B772C-GR
Range	60~120	100~200	160~320	200~400

ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-40	V
Collector to Emitter Voltage	V_{CEO}	-30	V
Emitter to Base Voltage	V_{EBO}	-6	V
Collector Current - Continuous	I_C	-3	A
Collector Power Dissipation	P_C	1.25	W
Junction, Storage Temperature	T_J, T_{STG}	-55~150	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	-40	-	-	V	I_C= -100μA, I_E=0
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$	-30	-	-	V	I_C= -10mA, I_B=0
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	-6	-	-	V	I_E= -100μA, I_C=0
Collector Cut – Off Current	I_{CBO}	-	-	-1	μA	V_{CB}= -40V, I_E=0
Collector Cut – Off Current	I_{CEO}	-	-	-10	μA	V_{CE}= -30V, I_B=0
Emitter Cut – Off Current	I_{EBO}	-	-	-1	μA	V_{EB}= -6V, I_C=0
DC Current Gain	h_{FE}	60	-	400		V_{CE}= -2V, I_C= -1A
		32	-	-		V_{CE}= -2V, I_C= -100mA
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	-	-	-0.5	V	I_C= -2A, I_B= -200mA
Base-emitter saturation voltage	$V_{BE(sat)}$	-	-	-1.5	V	I_C= -2A, I_B= -200mA
Transition Frequency	f_T	50	-	-	MHz	V_{CE}= -5V, I_C= -100mA f=10MHz

Elektronische Bauelemente

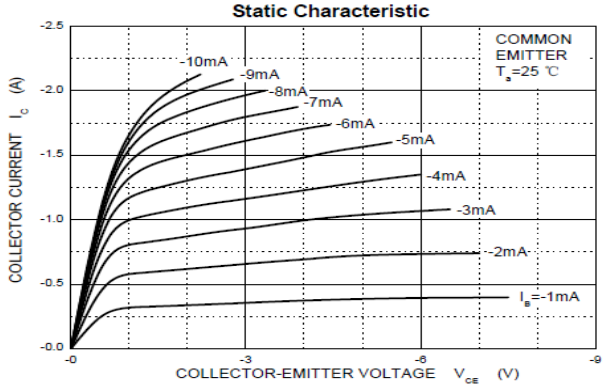
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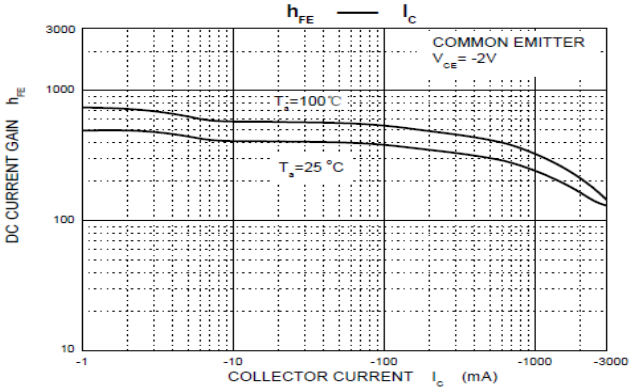
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CHARACTERISTIC CURVES

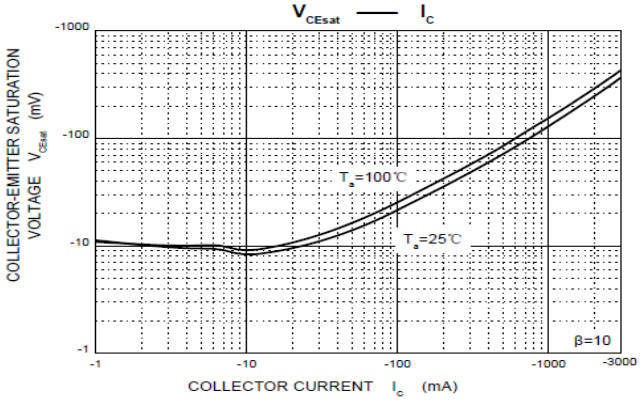
Static Characteristic



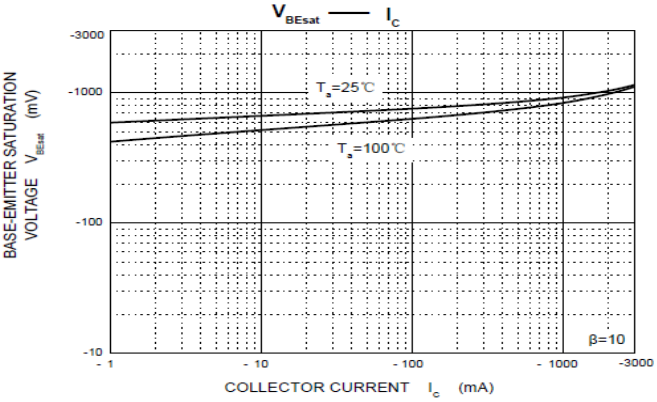
h_{FE} —— I_C



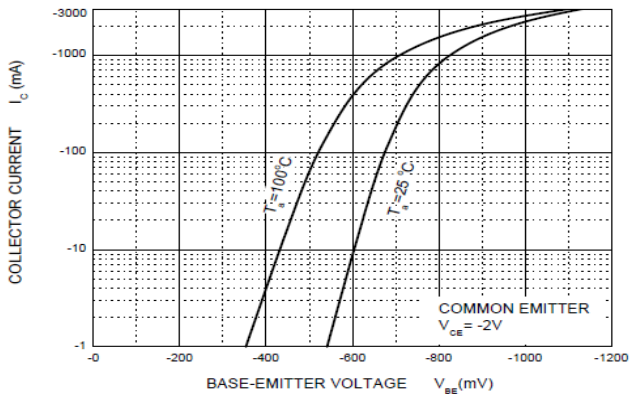
V_{CEsat} —— I_C



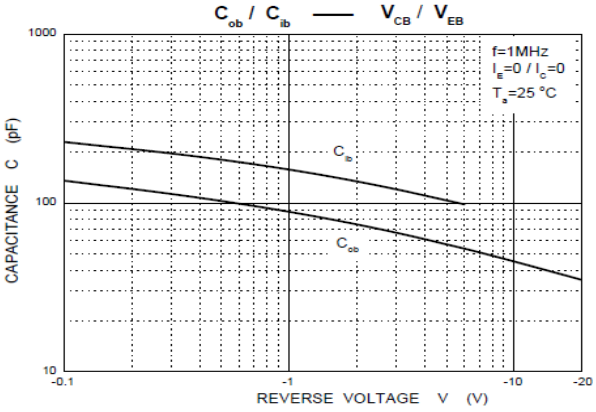
V_{BEsat} —— I_C



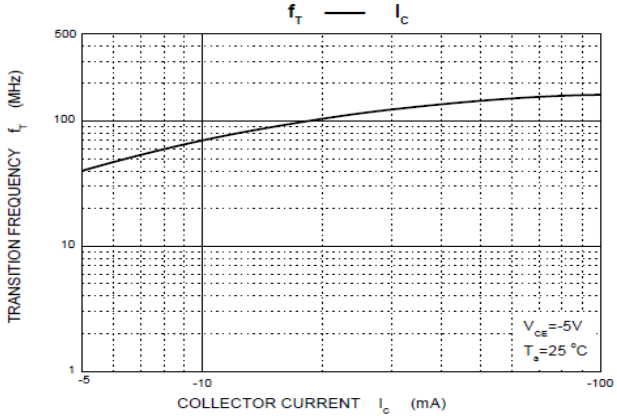
V_{BE} —— I_C



C_{ob} / C_{ib} —— V_{CB} / V_{EB}



f_T —— I_C



P_c —— T_a

