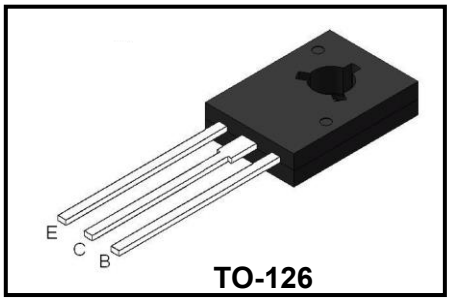
PNP Plastic-Encapsulate Transistors

Applications

- Audio power amplifier
- DC-DC convertor
- Voltage regulator

Features

- High current output up to 3A
- Low saturation voltage
- Complement to 2SD882



TO-126

Absolute Maximum Rating (T_C=25℃ unless otherwise noted)

Parameter		Symbol	Value	Unit
Collector-Base Voltage		BV_{CBO}	-40	V
Collector-Emitter Voltage		BV_{CEO}	-30	V
Emitter-Base Voltage		BV_{EBO}	-5	V
Collector Current		I_C	-3	A
Power Dissipation	T_A=25℃	P_C	1	W
	T_C=25℃		10	
Junction Temperature		Tj	150	℃
Storage Temperature		Tstg	-55 ~ 150	℃

Electrical Characteristics (T_C=25℃ unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Collector-base breakdown voltage	I_C = -100μA , I_E = 0	BV_{CBO}	-0			V
Collector-emitter breakdown voltage	I_C = -1mA , I_B = 0	BV_{CEO}	-30			V
Emitter-base breakdown voltage	I_E = -100μA , I_C = 0	BV_{EBO}	-5			V
Collector cut-off current	V_{CB} = -40V , I_B = 0	I_{CEO}			-1	μA
Emitter cut-off current	V_{EB} =- 5V , I_C = 0	I_{EBO}			-1	μA
DC current gain*	V_{CE}=-2V , I_C= -20mA	$h_{FE}1$	80			
	V_{CE}=-2V , I_C= -1A	$h_{FE}2$	100		400	
Collector-emitter saturation voltage*	I_C = -2A , I_B = -0.2A	$V_{CE(sat)}$		-0.3	-0.5	V
Base-emitter saturation voltage*	I_C = -2A , I_B = -0.2A	$V_{BE(sat)}$		-1.0	-2.0	V
Transition frequency	V_{CE} = -5V , I_B = -0.1A	f_T	50			MHz
Output Capacitance	V_{CB} = -10V,I_E = 0,f=1MHz	C_{ob}		45		pF

*** Pulse test: PW≤300μs, duty cycle≤2% Pulse**

$h_{FE}2$ Classification

Classification	2SB772C-Q	2SB772C-P	2SB772C-E
Range	100-200	160-320	200-400

Typical Characteristics

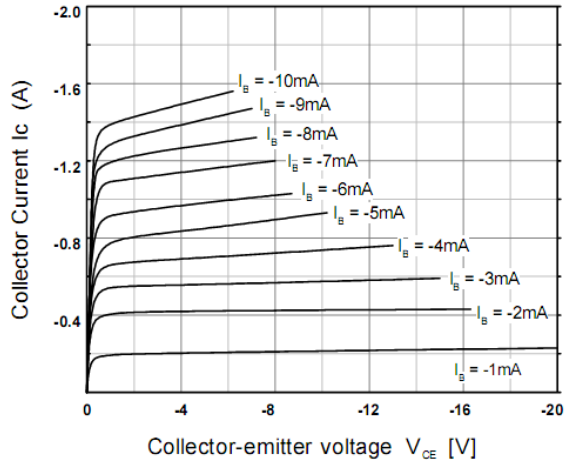


Figure 1. Static Characteristic

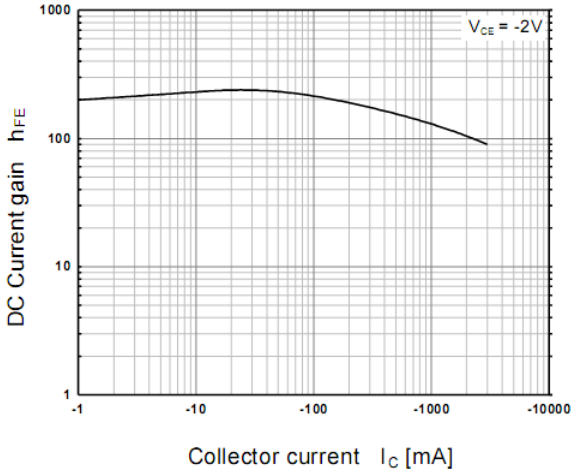


Figure 2. DC current Gain

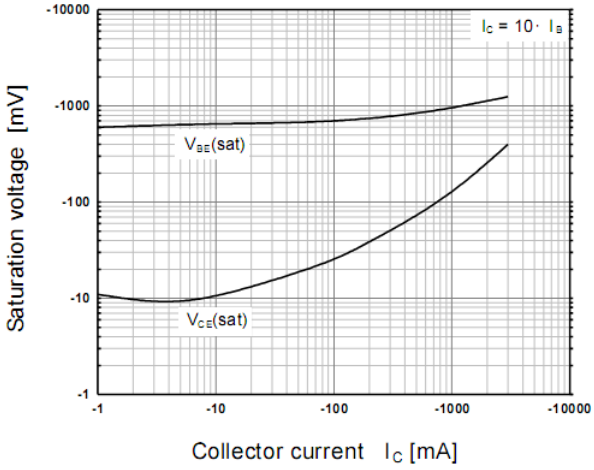


Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

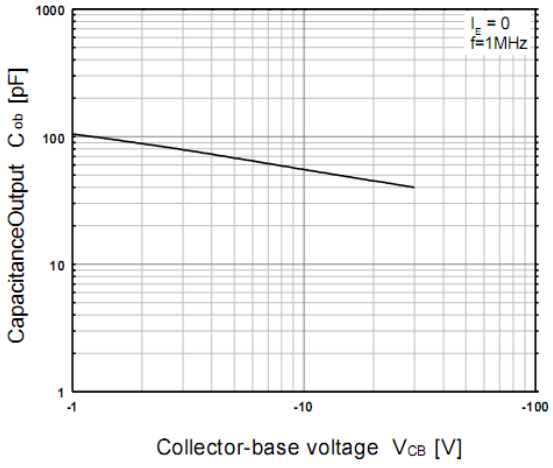


Figure 4. Collector Output Capacitance

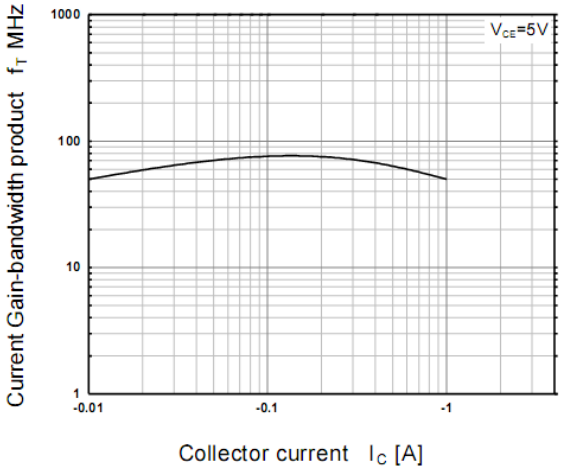


Figure 5. Current Gain-Bandwidth Product

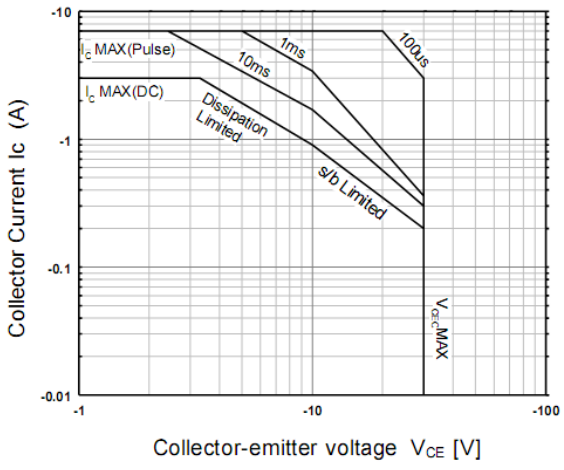


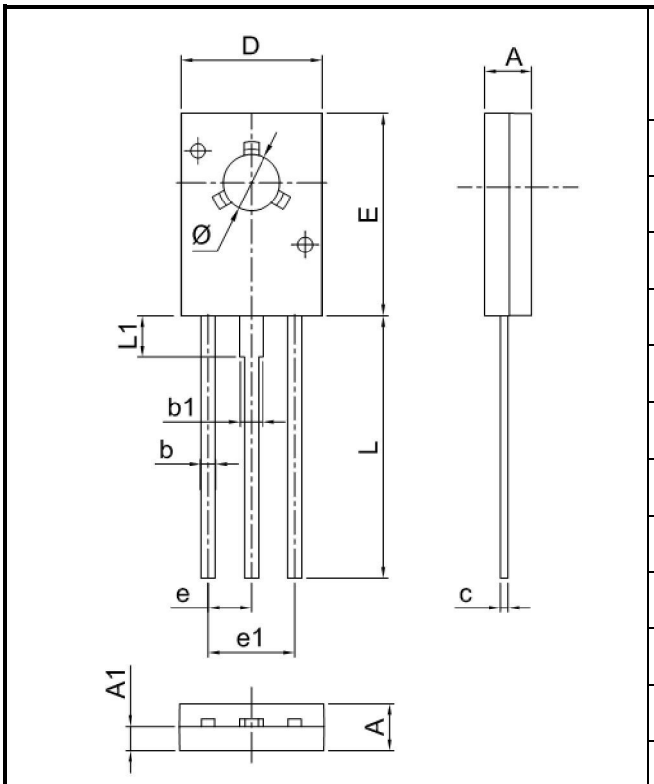
Figure 6. Safe Operating Area

Ordering information

Package	Packing Description	Base Quantity
TO-126	Bulk	500pcs/Bag

Package Dimensions

TO-126



Symbol	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	2.40	2.80	0.094	0.110
A1	1.00	1.40	0.039	0.055
b	0.66	0.86	0.026	0.034
b1	1.17	1.37	0.046	0.054
c	0.40	0.60	0.016	0.024
D	7.30	7.70	0.287	0.303
E	10.60	11.00	0.417	0.433
e	2.25	2.33	0.089	0.092
e1	4.50	4.66	0.177	0.183
L	14.00	15.00	0.551	0.591
L1	1.90	2.50	0.075	0.098
Φ	3.10	3.30	0.122	0.130

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