Elektronische Bauelemente

2SB1260

-1 A, -80 V

PNP Plastic Encapsulated Transistor

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

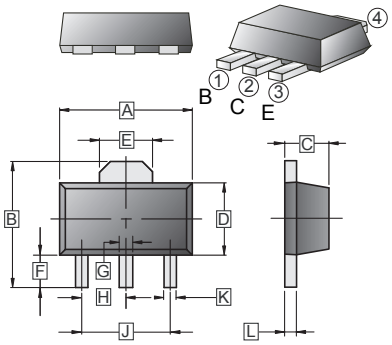
FEATURES

- High breakdown voltage and high current BV_{CEO}=-80V, I_C=-1A
- Good h_{FE} linearity
- Complements to 2SD1898

PACKAGE INFORMATION

Weight: 0.05 g (approximately)

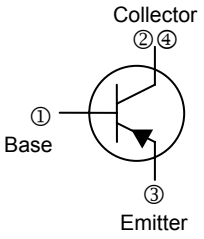
SOT-89



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.40	4.60	G	0.40	0.58
B	3.94	4.25	H	1.50	TYP
C	1.40	1.60	J	3.00	TYP
D	2.30	2.60	K	0.32	0.52
E	1.50	1.70	L	0.35	0.44
F	0.89	1.20			

MARKING

ZL



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

Parameter	Symbol	Ratings	Unit
Collector-Base Voltage	V_{CBO}	-80	V
Collector-Emitter Voltage	V_{CEO}	-80	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current -Continuous	I_C	-1	A
Collector Power Dissipation	P_C	0.5	W
Junction & Storage Temperature	T_J, T_{STG}	150, -55~150	°C

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector-base breakdown voltage	$V_{(BR)CBO}$	-80	-	-	V	I_C=-50μA, I_E=0
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	-80	-	-	V	I_C= -1mA, I_B=0
Emitter-base breakdown voltage	$V_{(BR)EBO}$	-5	-	-	V	I_E=-50μA, I_C=0
Collector cut-off current	I_{CBO}	-	-	-1	μA	V_{CB}=-60V, I_E=0
Emitter cut-off current	I_{EBO}	-	-	-1	μA	V_{EB}=-4 V, I_C=0
DC current gain	h_{FE}	82	-	390		V_{CE}=-3V, I_C= -100mA
Collector-emitter saturation voltage	$V_{CE(sat)}$	-	-	-0.4	V	I_C=-500mA, I_B= -50mA
Transition frequency	f_T	-	100	-	MHz	V_{CE}=-5V, I_C=-50mA, f=30MHz
Output Capacitance	C_{OB}	-	25	-	pF	V_{CB}=-10V, I_E=0, f=1MHz

CLASSIFICATION OF hFE2

Rank	Q	R	S
Range	82 - 180	120 - 270	180 - 390

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CHARACTERISTIC CURVES

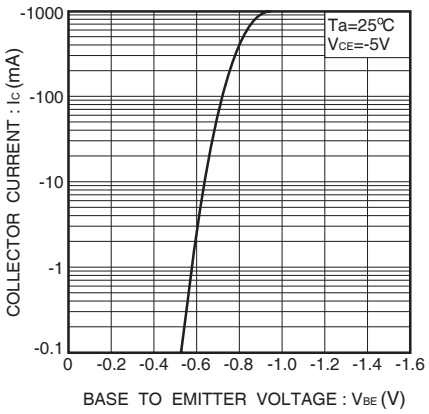

Fig.1 Grounded emitter propagation characteristics

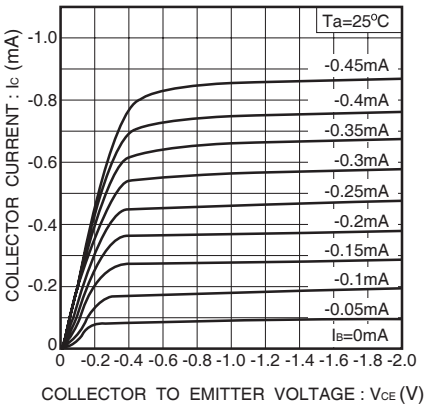

Fig.2 Grounded emitter output characteristics

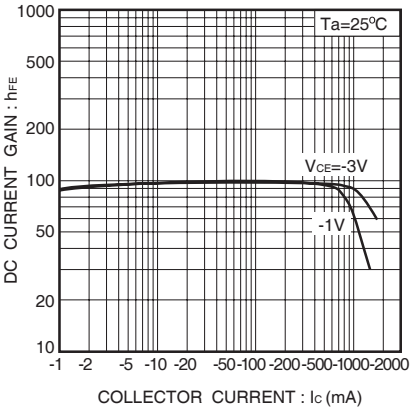

Fig.3 DC current gain vs. collector current

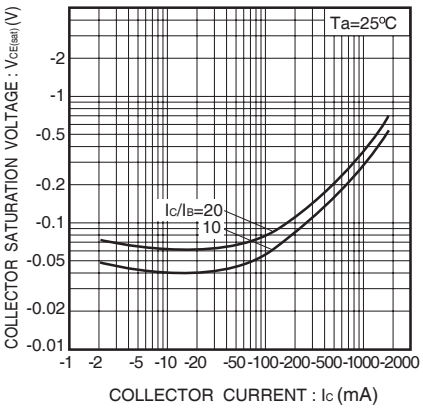

Fig.4 Collector-emitter saturation voltage vs. collector current

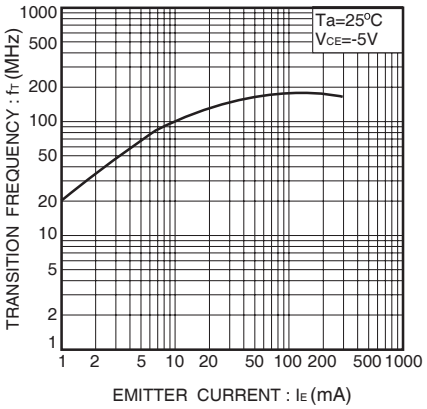

Fig.5 Gain bandwidth product vs. emitter current

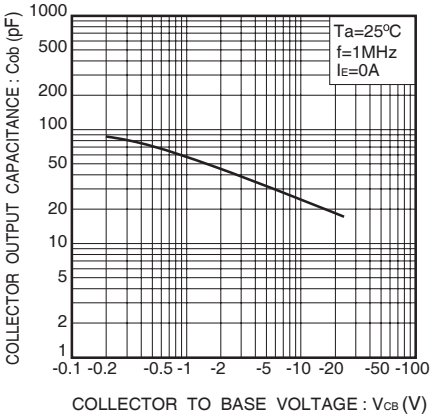

Fig.6 Collector output capacitance vs. collector-base voltage

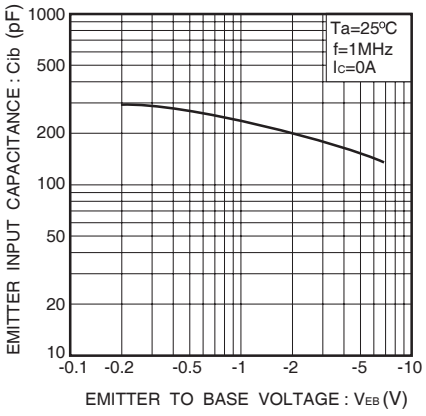

Fig. 7 Emitter input capacitance vs. emitter-base voltage

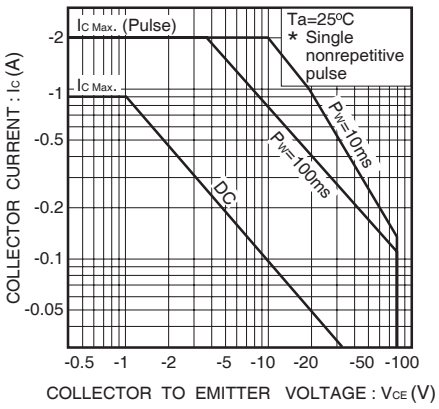

Fig. 8 Safe operating area (2SB1260)