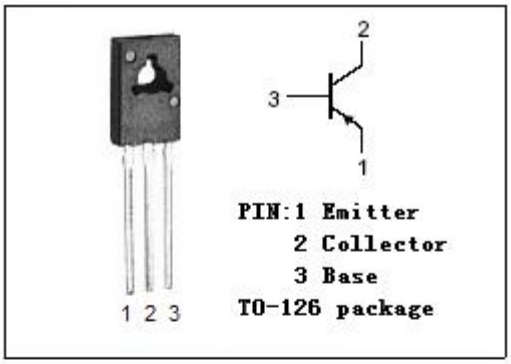
isc Silicon PNP Power Transistor — 2SB1007

DESCRIPTION

- Collector-Emitter Breakdown Voltage-
  : $V_{(BR)CEO}$= -80V(Min)
- Good Linearity of h_{FE}
- Complement to Type 2SD1378
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

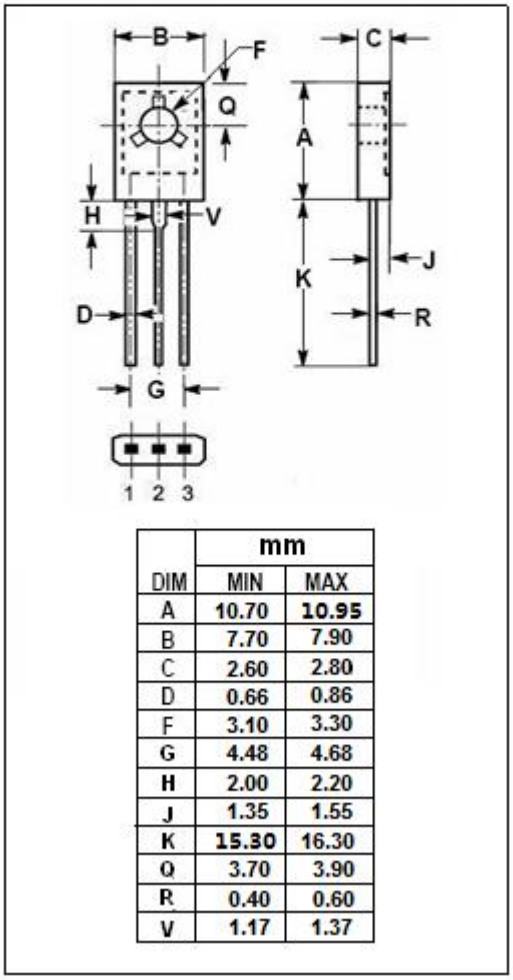


APPLICATIONS

- Designed for low frequency power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-80	V
V_{CEO}	Collector-Emitter Voltage	-80	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-0.7	A
P_C	Collector Power Dissipation @ T_C=25℃	10	W
	Collector Power Dissipation @ T_a=25℃	1	
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃



DIM	mm MIN	MAX
A	10.70	10.95
B	7.70	7.90
C	2.60	2.80
D	0.66	0.86
F	3.10	3.30
G	4.48	4.68
H	2.00	2.20
J	1.35	1.55
K	15.30	16.30
Q	3.70	3.90
R	0.40	0.60
V	1.17	1.37

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	I_C= -50 μ A; I_E= 0	-80			V
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	I_C= -2mA; I_B= 0	-80			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Vltage	I_E= -50 μ A; I_C=0	-5			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= -500mA; I_B= -50mA			-0.4	V
I_{CBO}	Collector Cutoff Current	V_{CB}= -50V; I_E= 0			-0.5	μ A
I_{EBO}	Emitter Cutoff Current	V_{EB}= -4V; I_C= 0			-0.5	μ A
h_{FE}	DC Current Gain	I_C= -100mA; V_{CE}= -3V	82		390	

◆ **h_{FE} Classifications**

P	Q	R
82-180	120-270	180-390