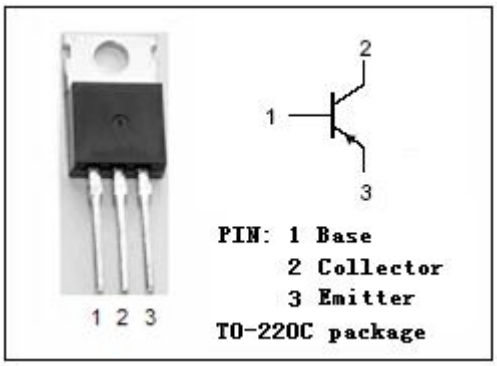
isc Silicon PNP Power Transistor — 2SB991



DESCRIPTION

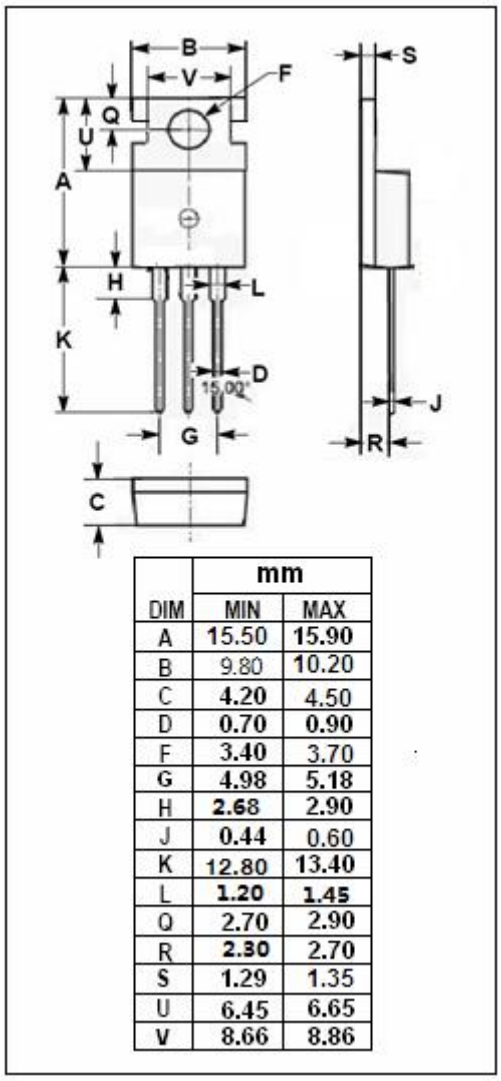
- Collector-Emitter BreakdownVoltage-
  : $V_{(BR)CEO}$= -180V(Min.)
- Low Collector Saturation Voltage-
  : $V_{CE(sat)}$= -1.0(Max.) @I_C= -0.5A
- Wide area of safe operation
- Good Linearity of h_{FE}
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Adudio frequency power amplifier
- High frequency power amplifier

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-180	V
V_{CEO}	Collector-Emitter Voltage	-180	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current-Continuous	-1.5	A
I_{CM}	Collector Current-Peak	-3.0	A
P_C	Collector Power Dissipation@T_C=25℃	20	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature	-55~150	℃



DIM	mm MIN	mm MAX
A	15.50	15.90
B	9.80	10.20
C	4.20	4.50
D	0.70	0.90
F	3.40	3.70
G	4.98	5.18
H	2.68	2.90
J	0.44	0.60
K	12.80	13.40
L	1.20	1.45
Q	2.70	2.90
R	2.30	2.70
S	1.29	1.35
U	6.45	6.65
V	8.66	8.86

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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	I_C= -1mA; I_B= 0	-180			V
$V_{(BR)CBO}$	Collector-Base breakdown voltage	I_C=-1mA; I_E= 0	-180			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	I_E= -1mA; I_C= 0	-6			V
$V_{CE(sat)}$★	Collector-Emitter Saturation Voltage	I_C= -500mA; I_B= -50mA			-1.0	V
$V_{BE(sat)}$★	Base-Emitter Saturation Voltage	I_C= -500mA; I_B= -50mA			-1.5	V
I_{CBO}	Collector Cutoff Current	V_{CB}= -180V; I_E= 0			-10	μA
I_{CEO}	Collector Cutoff Current	V_{CE}= -180V; I_B= 0			-100	μA
I_{EBO}	Emitter Cutoff Current	V_{EB}= -5V; I_C= 0			-10	μA
h_{FE-1}★	DC Current Gain	I_C= -5mA ; V_{CE}= -5V	30			
h_{FE-2}★	DC Current Gain	I_C= -0.3A ; V_{CE}= -5V	60		320	
f_T	Current-Gain—Bandwidth Product	I_C=-0.5A ; V_{CE}= -10V		8		MHz

★Pulse Test/PW≦350us,duty≦2%

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