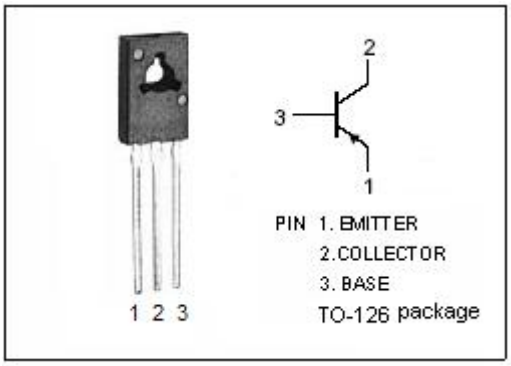
isc Silicon PNP Power Transistor 2SA900

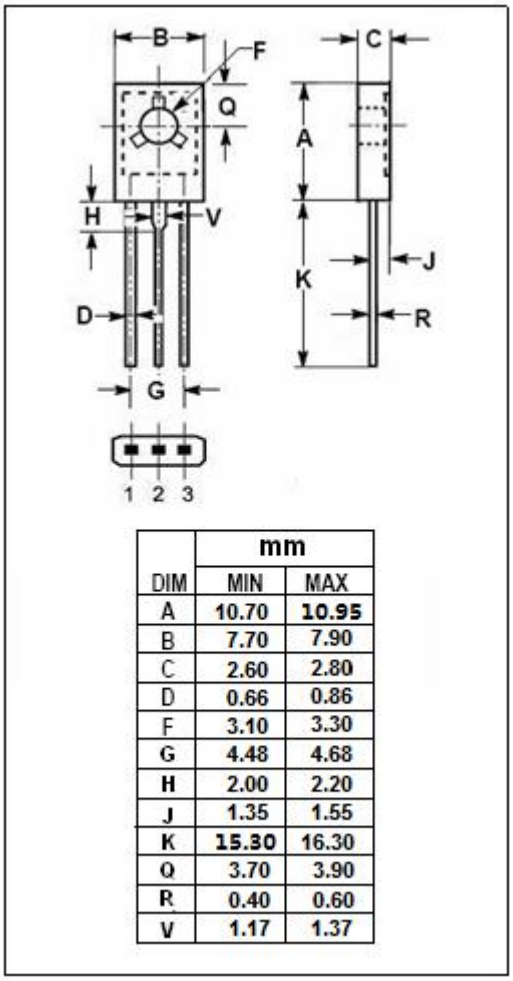
DESCRIPTION

- Collector-Emitter Breakdown Voltage-
  : $V_{(BR)CEO}$= -18V(Min)
- Good Linearity of h_{FE}
- Low Collector Saturation Voltage
- Complement to Type 2SC1568
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

- Designed for audio frequency power amplifier applications.



DIM	mm MIN	mm 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

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-20	V
V_{CEO}	Collector-Emitter Voltage	-18	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-1	A
I_{CP}	Collector Current-Pulse	-2	A
P_C	Collector Power Dissipation	1.2	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	I_C= -1mA; I_B= 0	-18			V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	I_C= -10 μ A; I_E= 0	-20			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	I_E= -10 μ A; I_C= 0	-5			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= -1A; I_B= -50mA			-0.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I_C= -0.5A; I_B= -50mA			-1.2	V
I_{CBO}	Collector Cutoff Current	V_{CB}= -20V; I_E= 0			-1	μ A
I_{CEO}	Collector Cutoff Current	V_{CE}= -18V; I_B= 0			-10	μ A
h_{FE-1}	DC Current Gain	I_C= -0.5A; V_{CE}= -2V	90		470	
h_{FE-2}	DC Current Gain	I_C= -1.5A ; V_{CE}= -2V	50			
f_T	Current-Gain—Bandwidth Product	I_C= -50mA; V_{CE}= -6V		200		MHz
C_{OB}	Output Capacitance	I_E=0; V_{CB}= -6V, f_{test}= 1MHz		40		pF

◆ **h_{FE-1} Classifications**

Q	R	S	T	U
90-155	130-210	180-280	250-360	330-470