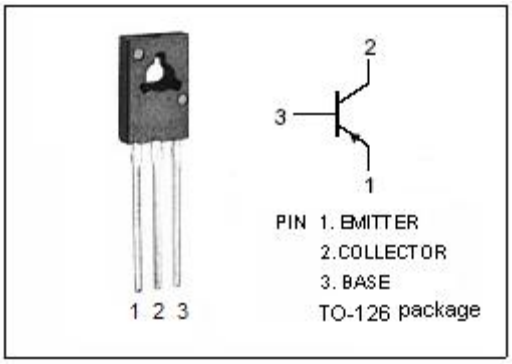
isc Silicon PNP Power Transistor — 2SA1096A

DESCRIPTION

- High Collector-Emitter Breakdown Voltage- $V_{(BR)CEO}$= -60V (Min)
- Good Linearity of h_{FE}
- Complement to Type 2SC2497A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

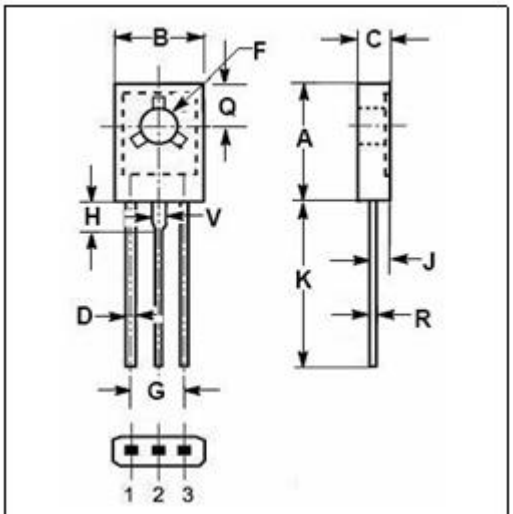


APPLICATIONS

- Designed for low-frequency power amplification

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-70	V
V_{CEO}	Collector-Emitter Voltage	-60	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-2	A
I_{CM}	Collector Current-Peak	-3	A
P_C	Collector Power Dissipation @ T_a=25℃	1.2	W
	Total Power Dissipation @ T_C=25℃	5	
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
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	I_C= -2mA; I_B= 0	-60			V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	I_C= -1mA; I_E= 0	-70			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= -1.5A; I_B= -0.15A			-1.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I_C= -1.5A; I_B= -0.15A			-1.5	V
I_{CBO}	Collector Cutoff Current	V_{CB}= -20V; I_E= 0			-1	μA
I_{CEO}	Collector Cutoff Current	V_{CE}= -10V; I_B= 0			-100	μA
I_{EBO}	Emitter Cutoff Current	V_{EB}= -5V; I_C= 0			-10	μA
h_{FE}	DC Current Gain	I_C= -1A ; V_{CE}= -5V	80		220	
f_T	Current-Gain—Bandwidth Product	I_E= 0.5A; V_{CB}= -5V; f= 200MHz		150		MHz
C_{OB}	Output Capacitance	I_E= 0; V_{CB}= -20V; f= 1.0MHz		55		pF

◆ **h_{FE} Classifications**

Q	R
80-160	120-220

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