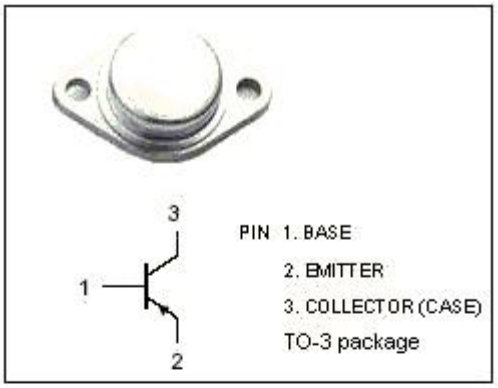
isc Silicon PNP Power Transistor 2SA1003

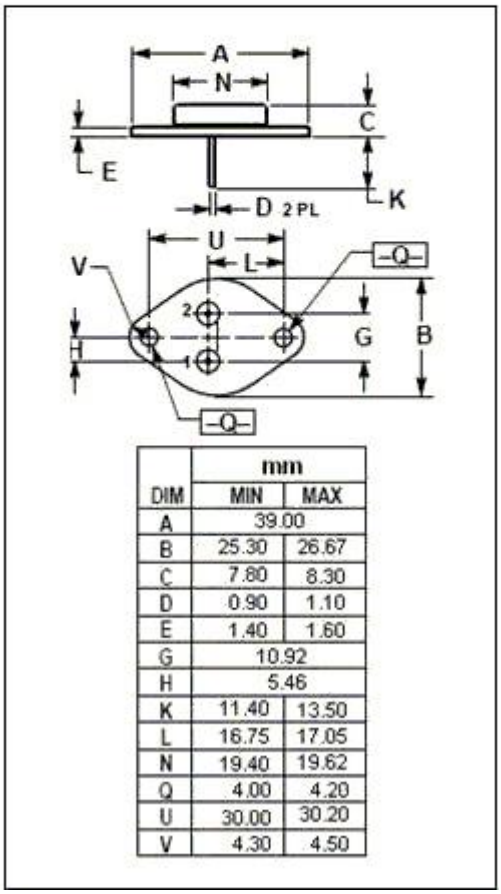
DESCRIPTION

- High Current Capability
- Collector-Emitter Breakdown Voltage-
  : $V_{(BR)CEO}$= -150V(Min.)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

- Designed for audio and general purpose applications.



DIM	mm MIN	MAX
A	39.00	
B	25.30	26.67
C	7.80	8.30
D	0.90	1.10
E	1.40	1.60
G	10.92	
H	5.46	
K	11.40	13.50
L	16.75	17.05
N	19.40	19.62
Q	4.00	4.20
U	30.00	30.20
V	4.30	4.50

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-150	V
V_{CEO}	Collector-Emitter Voltage	-150	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current-Continuous	-12	A
P_C	Collector Power Dissipation @T_C=25℃	120	W
T_j	Junction Temperature	150	℃
T_{stg}	Storage Temperature	-55~150	℃

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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= -30mA; I_B= 0	-150			V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	I_C= -1mA; I_E= 0	-150			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= -8A; I_B= -0.8A			-3.0	V
I_{CBO}	Collector Cutoff Current	V_{CB}= -150V; I_E= 0			-50	μA
I_{EBO}	Emitter Cutoff Current	V_{EB}= -6V; I_C= 0			-50	μA
h_{FE}	DC Current Gain	I_C= -0.5A ; V_{CE}= -5V	50		200	
f_T	Current-Gain—Bandwidth Product	I_C= -1A ; V_{CE}= -10V		40		MHz