

isc Silicon PNP Power Transistor

2SA1002

DESCRIPTION

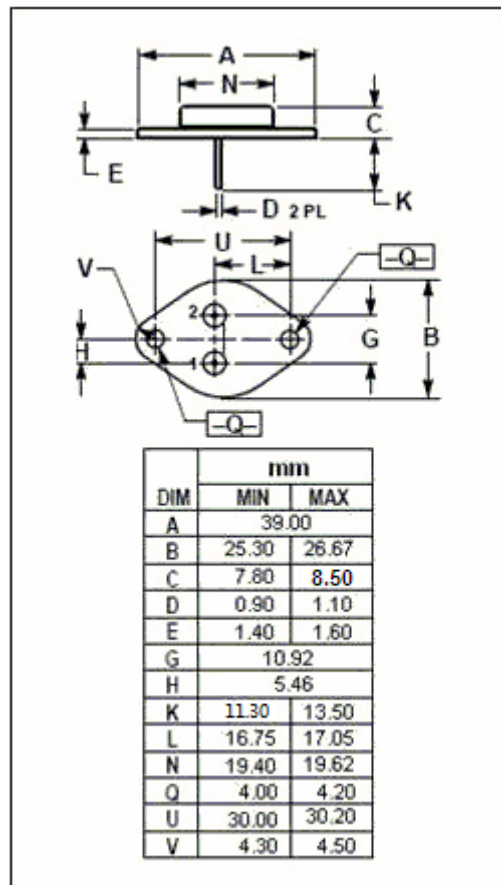
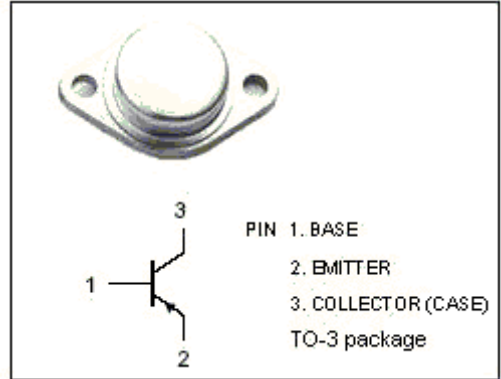
- High Current Capability
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -120V(\text{Min.})$

APPLICATIONS

- Designed for audio and general purpose applications.

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

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



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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -30mA; I _B = 0	-120			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -1mA; I _E = 0	-120			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} = -120V; I _E = 0			-50	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -6V; I _C = 0			-50	μ A
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