

isc Silicon PNP Power Transistor

2SA909

DESCRIPTION

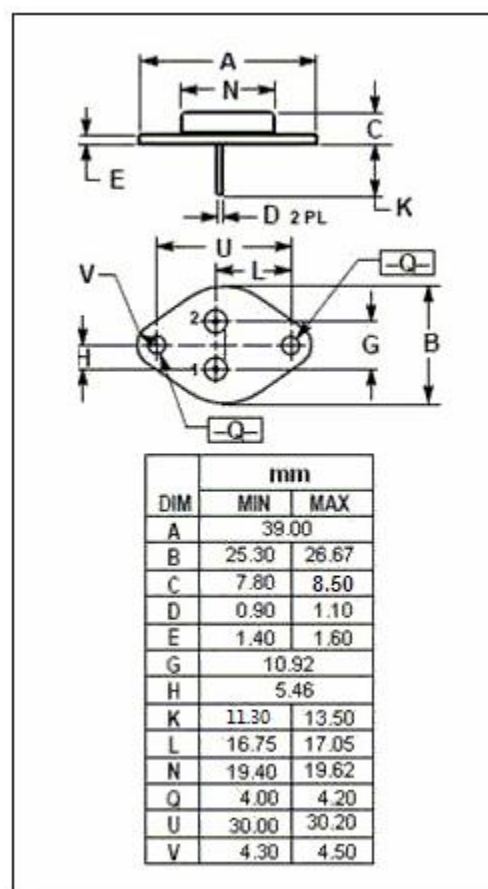
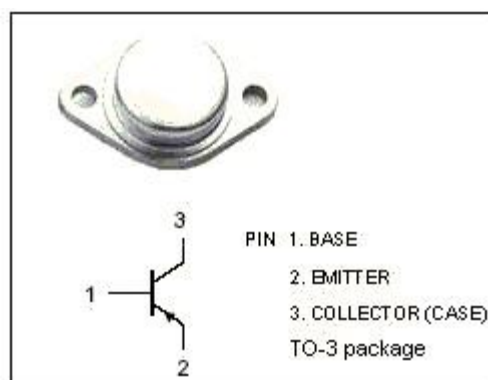
- High Power Dissipation-
: $P_C = 150W(\text{Max.})@T_C=25^{\circ}C$
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -200V(\text{Min.})$
- Complement to Type 2SC1586
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for amplifier and general purpose applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-200	V
V_{CEO}	Collector-Emitter Voltage	-200	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current-Continuous	-15	A
I_B	Base Current-Continuous	-5	A
P_C	Collector Power Dissipation @ $T_C=25^{\circ}C$	150	W
T_j	Junction Temperature	150	$^{\circ}C$
T_{stg}	Storage Temperature	-65~150	$^{\circ}C$



isc Silicon PNP Power Transistor**2SA909****ELECTRICAL CHARACTERISTICS****T_j=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -50mA; I _B = 0	-200			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -10A; I _B = -1A			-3.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -200V; I _E = 0			-1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -6V; I _C = 0			-1.0	mA
h _{FE}	DC Current Gain	I _C = -5A; V _{CE} = -4V	30			
f _T	Current-Gain—Bandwidth Product	I _E = 0.5A; V _{CE} = -12V		10		MHz

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