

isc Silicon PNP Power Transistor

BD908

DESCRIPTION

- DC Current Gain -
: $h_{FE} = 40 @ I_C = -0.5A$
- Collector-Emitter Sustaining Voltage-
: $V_{CEO(SUS)} = -60V(\text{Min})$
- Complement to Type BD907
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

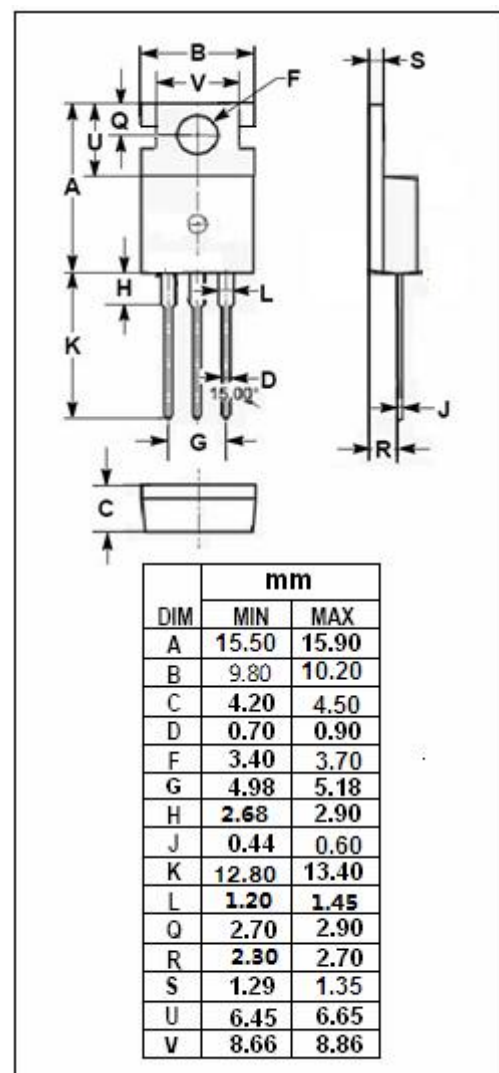
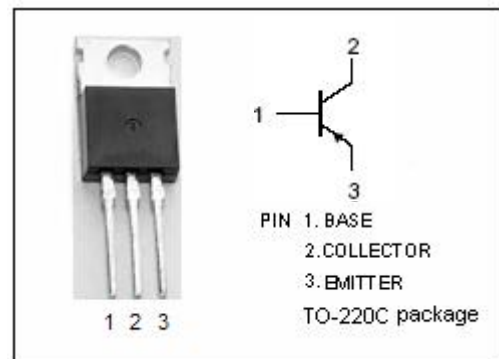
- Designed for use in general purpose power amplifier and switching applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-60	V
V_{CEO}	Collector-Emitter Voltage	-60	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-15	A
I_{CM}	Collector Current-Peak	-20	A
I_B	Base Current	-5	A
P_C	Collector Power Dissipation @ $T_C = 25^\circ\text{C}$	90	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-65~150	$^\circ\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	1.38	$^\circ\text{C/W}$



isc Silicon PNP Power Transistor**BD908****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEQ(SUS)}	Collector-Emitter Sustaining Voltage	I _C = -50mA; I _B = 0	-60		V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = -5A; I _B = -0.5A		-1.0	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = -10A; I _B = -2.5A		-3.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -10A; I _B = -2.5A		-2.5	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -5A ; V _{CE} = -4V		-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -60V; I _E = 0		-0.5	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = -30V; I _B = 0		-1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0		-1.0	mA
h _{FE-1}	DC Current Gain	I _C = -0.5A; V _{CE} = -4V	40	250	
h _{FE-2}	DC Current Gain	I _C = -5A; V _{CE} = -4V	15	150	
h _{FE-3}	DC Current Gain	I _C = -10A ; V _{CE} = -4V	5		
f _T	Current-Gain—Bandwidth Product	I _C = -0.5A; V _{CE} = -4V; f _{test} = 1.0MHz	3.0		MHz

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