

isc Silicon PNP Darlington Power Transistor

BD900

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= -80V(Min)
- · High DC Current Gain
 - : h_{FE}= 750(Min) @I_C= -3A
- · Collector Power Dissipation-
- : P_C= 70W@ T_C= 25℃
- 8 A Continuous Collector Current
- Complement to Type BD899
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation



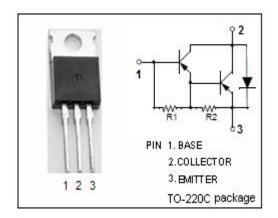
· Designed for use as complementary AF push-pull output stage applications

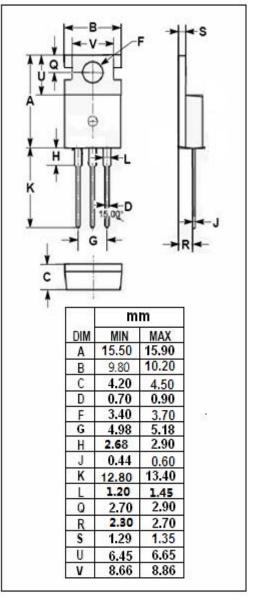
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-80	V
V _{CEO}	Collector-Emitter Voltage	-80	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current-Continuous	-8	Α
I _B	Base Current-Continuous	-0.3	Α
Pc	Collector Power Dissipation @ T _a =25°C	2	10/
	Collector Power Dissipation @ T _C =25℃	70	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$ C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.79	°C/W
R _{th j-a}	R _{th j-a} Thermal Resistance,Junction to Ambient		°C/W







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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 = -50mA; I _B = 0	-80			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -3A; I _B = -12mA			-2.5	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -3A ; V _{CE} = -3V			-2.5	V
Ісво	Collector Cutoff Current	V _{CB} = -80V; I _E = 0			-0.2	mA mA
		V _{CB} = -80V; I _E = 0; T _C = 100 ℃			-2.0	
Iceo	Collector Cutoff Current	V _{CE} = -40V; I _B = 0			-0.5	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-2	mA
h _{FE}	DC Current Gain	Ic= -3A; Vc== -3V	750			

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