

isc Silicon NPN Darlington Power Transistor

BD897A

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 60V(Min)
- · High DC Current Gain
 - : h_{FE}= 750(Min) @I_C= 4A
- · Collector Power Dissipation-
 - : P_C= 70W@ T_C= 25℃
- 8 A Continuous Collector Current
- · Complement to Type BD898A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

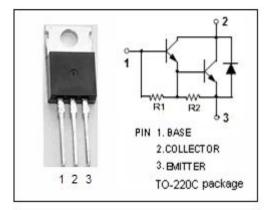
 Designed for use as complementary AF push-pull output stage applications

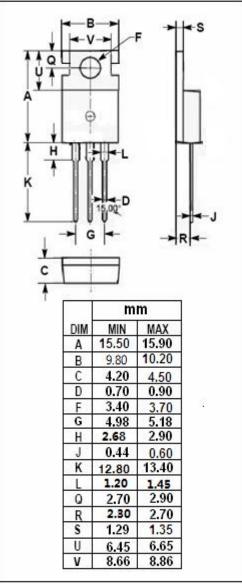
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	60	V	
V _{CEO}	Collector-Emitter Voltage	60	V	
V_{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current-Continuous	8	А	
lΒ	Base Current-Continuous	0.3	Α	
Pc	Collector Power Dissipation @ Ta=25°C	2 W		
	Collector Power Dissipation @ T _C =25°C	70	vv	
TJ	Junction Temperature 150		${\mathbb C}$	
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$	

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	60			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 16mA			2.5	V
V _{BE(on)}	Base-Emitter On Voltage	Ic= 4A; Vc= 3V			2.5	V
Ісво	Collector Cutoff Current	V _{CB} = 60V; I _E = 0			0.2	- mA
		V _{CB} = 60V; I _E = 0; T _C = 100°C			2.0	
I _{CEO}	Collector Cutoff Current	V _{CE} = 30V; 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= 4A; Vc= 3V	750			

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