

isc Silicon NPN Darlington Power Transistor

BD895A

DESCRIPTION

- Collector-Emitter Breakdown Voltage-: V_{(BR)CEO}= 45V(Min)
- High DC Current Gain
- : h_{FE}= 750(Min) @I_C= 4A
- Collector Power Dissipation-
- : Pc= 70W@ Tc= 25℃
- 8 A Continuous Collector Current
- Complement to Type BD896A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

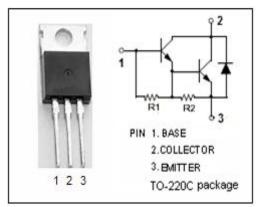
• Designed for use as complementary AF push-pull output stage applications

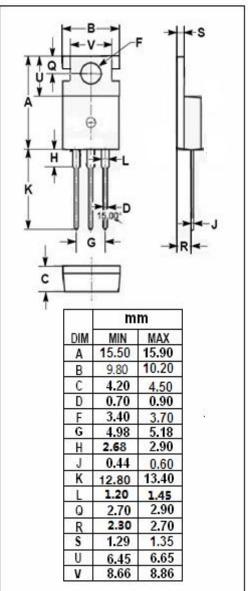
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
Vсво	Collector-Base Voltage	45	V	
V _{CEO}	Collector-Emitter Voltage 45			
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current-Continuous 8		А	
I _B	Base Current-Continuous 0.3		А	
Pc	Collector Power Dissipation @ T _a =25℃	2	W	
	Collector Power Dissipation @ T _c =25°C	70		
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-65~150	°C	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.79	°C/W
Rth j-a	Thermal Resistance, Junction to Ambient	62.5	°C/W





isc website: www.iscsemi.com



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 50mA; I _B = 0	45			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 16mA			2.8	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 4A ; V _{CE} = 3V			2.5	V
Ісво	Collector Cutoff Current	V _{CB} = 45V; I _E = 0			0.2	mA
		V _{CB} = 45V; I _E = 0; T _C = 100℃			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	I _C = 4A ; V _{CE} = 3V	750			

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