

Inchange Semiconductor

Product Specification

Silicon PNP Power Transistors

BDX34/A/B/C

DESCRIPTION

- With TO-220C package
- High DC current gain
- DARLINGTON
- Complement to type BDX33/A/B/C

APPLICATIONS

- For power linear and switching applications

PINNING

PIN	DESCRIPTION
1	Base
2	Collector;connected to mounting base
3	Emitter

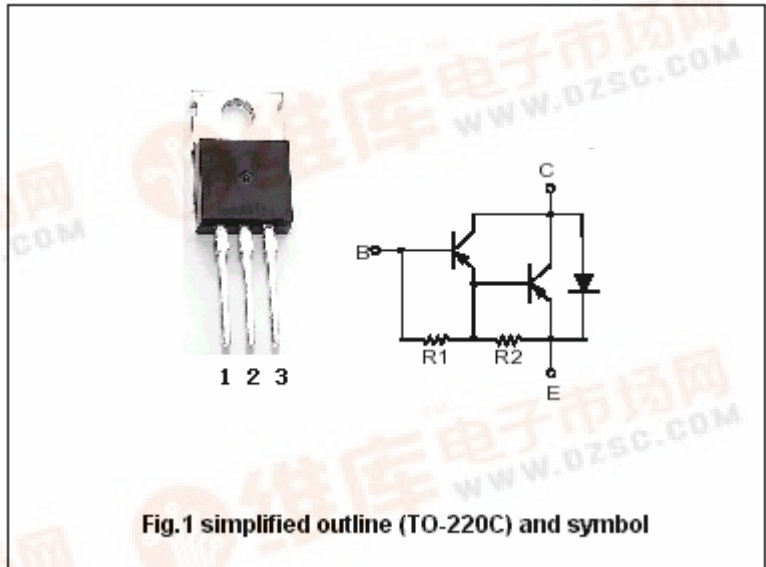


Fig.1 simplified outline (TO-220C) and symbol

Absolute maximum ratings(Ta=25)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT	
V _{CBO}	Collector-base voltage	Open emitter	BDX34	-45	V
			BDX34A	-60	
			BDX34B	-80	
			BDX34C	-100	
V _{CEO}	Collector-emitter voltage	Open base	BDX34	-45	V
			BDX34A	-60	
			BDX34B	-80	
			BDX34C	-100	
V _{EBO}	Emitter-base voltage	Open collector	-5	V	
I _C	Collector current-DC		-10	A	
I _{CM}	Collector current-Pulse		-15	A	
I _B	Base current		-0.25	A	
P _C	Collector power dissipation	T _C =25	70	W	
T _j	Junction temperature		150		
T _{stg}	Storage temperature		-65~150		

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal resistance junction to case	1.78	/W

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CHARACTERISTICS

T_j=25 unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-emitter sustaining voltage	BDX34	I _C =-0.1A, I _B =0	-45		V
		BDX34A		-60		
		BDX34B		-80		
		BDX34C		-100		
V _{CEsat}	Collector-emitter saturation voltage	BDX34/34A	I _C =-4A, I _B =-8mA		-2.5	V
		BDX34B/34C	I _C =-3A, I _B =-6mA			
V _{BE}	Base-emitter on voltage	BDX34/34A	I _C =-4A; V _{CE} =-3V		-2.5	V
		BDX34B/34C	I _C =-3A; V _{CE} =-3V			
I _{CBO}	Collector cut-off current	BDX34	V _{CB} =-45V, I _E =0		-0.2	mA
		BDX34A	V _{CB} =-60V, I _E =0			
		BDX34B	V _{CB} =-80V, I _E =0			
		BDX34C	V _{CB} =-100V, I _E =0			
I _{CEO}	Collector cut-off current	BDX34	V _{CE} =-22V, I _B =0		-0.5	mA
		BDX34A	V _{CE} =-30V, I _B =0			
		BDX34B	V _{CE} =-40V, I _B =0			
		BDX34C	V _{CE} =-50V, I _B =0			
I _{EBO}	Emitter cut-off current	V _{EB} =-5V; I _C =0			-5.0	mA
h _{FE}	DC current gain	BDX34/34A	I _C =-4A; V _{CE} =-3V	750		
		BDX34B/34C	I _C =-3A; V _{CE} =-3V			
V _F	Forward diode voltage	I _F =-8A			-4.0	V

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PACKAGE OUTLINE

