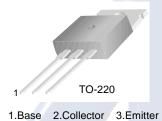


BDX54/A/B/C

Hammer Drivers, Audio Amplifiers Applications Power Liner and Switching Applications

- Power Darlington TR
- Complement to BDX53, BDX53A, BDX53B and BDX53C respectively



PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

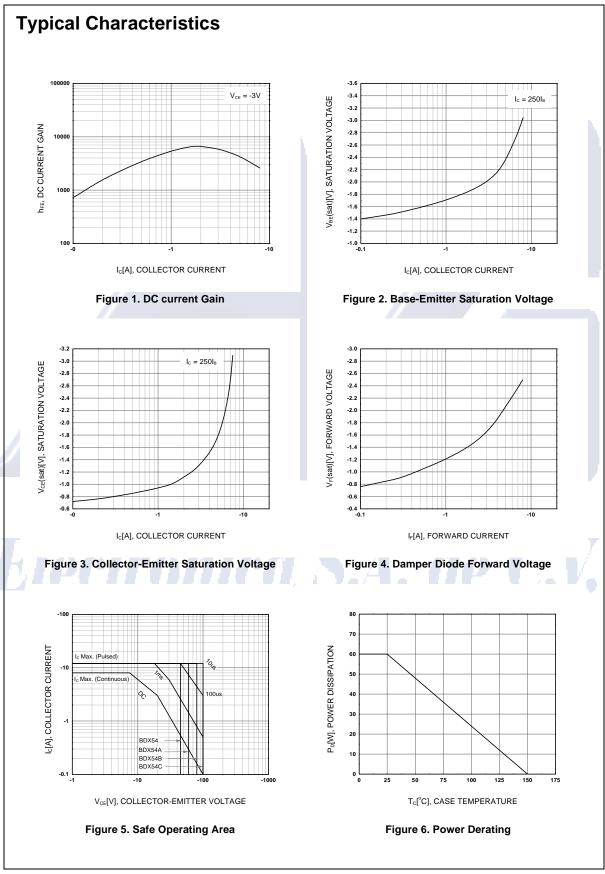
Symbol **Parameter** Value Units V_{CBO} : BDX54 - 45 Collector-Base Voltage : BDX54A - 60 V : BDX54B - 80 : BDX54C - 100 ٧ - 45 V_{CEO} Collector-Emitter Voltage : BDX54 : BDX54A - 60 : BDX54B - 80 : BDX54C - 100 ٧ V_{EBO} Emitter-Base Voltage - 5 Collector Current (DC) - 8 Α I_{C} *Collector Current (Pulse) - 12 Α I_{CP} **Base Current** - 0.2 Α I_B Collector Dissipation (T_C=25°C) W 60 P_{C} Junction Temperature 150 °С Storage Temperature - 65 ~ 150 ٥С

Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
V _{CEO} (sus)	* Collector-Emitter Sustaining Voltage	A 7 0/ Le 1	K ALT	7	20	
	: BDX54	$I_C = -100 \text{mA}, I_B = 0$	- 45			V
	: BDX54A		- 60			V
	: BDX54B		- 80			V
	: BDX54C		- 100			٧
I _{CBO}	Collector Cut-off Current : BDX54	$V_{CB} = -45V, I_{E} = 0$			- 200	μΑ
	: BDX54A	$V_{CB} = -60V, I_{E} = 0$			- 200	μΑ
	: BDX54B	$V_{CB} = -80V, I_{E} = 0$			- 200	μΑ
	: BDX54C	$V_{CB} = -100V, I_{E} = 0$			- 200	μΑ
I _{CEO}	Collector Cut-off Current : BDX54	$V_{CE} = -22V, I_{B} = 0$			- 500	μΑ
	: BDX54A	$V_{CE} = -30V, I_{B} = 0$			- 500	μΑ
	: BDX54B	$V_{CE} = -40V, I_{B} = 0$			- 500	μΑ
	: BDX54C	$V_{CE} = -50V, I_{B} = 0$			- 500	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB} = -5V, I_{C} = 0$			- 2	mA
h _{FE}	* DC Current Gain	$V_{CE} = -3V, I_{C} = -3A$	750			
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	$I_C = -3A, I_B = -12mA$			- 2	V
V _{BE} (sat)	* Base-Emitter Saturation Voltage	I _C = - 3A, I _B = - 12mA			- 2.5	V
V _F	* Parallel Diode Forward Voltage	I _F = - 3A		- 1.8	- 2.5	V
		I _F = - 8A		- 2.5		V

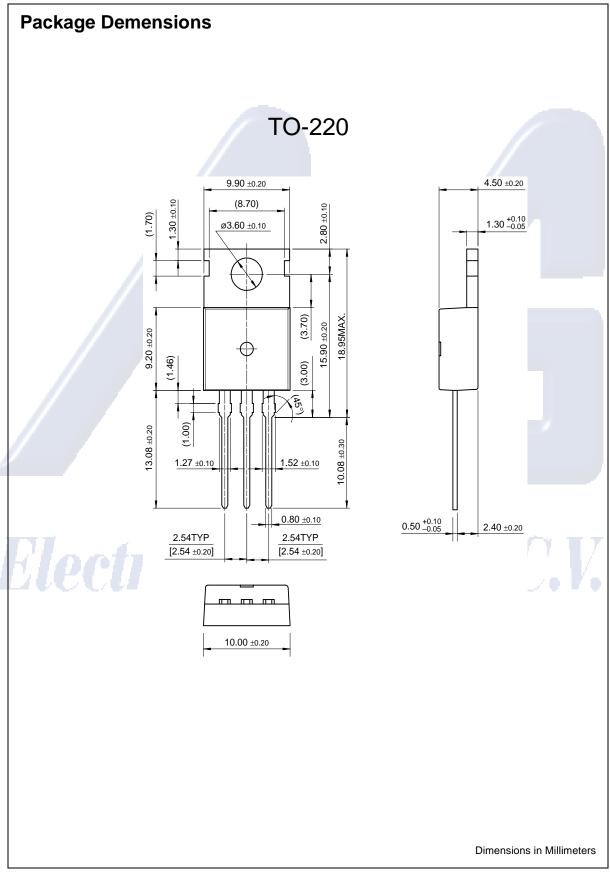
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