FAIRCHILD

BDW24/A/B/C

Hammer Drivers, Audio Amplifiers Applications

Power Darlington TR

Complement to BDW23, BDW23A, BDW23B and BDW23C respectively



1.Base 2.Collector 3.Emitter

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

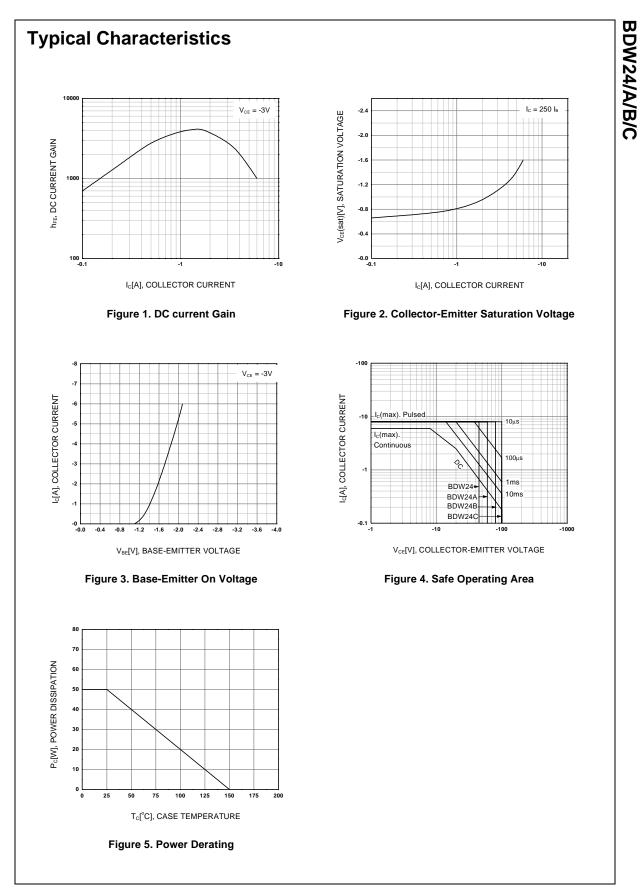
Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage		
	: BDW24	- 45	V
: BDW24A : BDW24B : BDW24C	- 60	V	
	: BDW24B	- 80	V
	: BDW24C	- 100	V
V _{CEO}	Collector-Emitter Voltage		
	: BDW24	- 45	V
	: BDW24A	- 60	V
	: BDW24B	- 80	V
	: BDW24C	- 100	V
V _{EBO}	Emitter-Base Voltage	- 5	V
С	Collector Current (DC)	- 6	A
СР	*Collector Current (Pulse)	- 8	A
в	Base Current	- 0.2	A
P _C	Collector Dissipation (T _C =25°C)	50	W
Т _Ј	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 65 ~ 150	°C

BDW24/A/B/C

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
V _{CEO} (sus)	* Collector-Emitter Sustaining Voltage					
	: BDW24	I _C = - 100mA, I _B = 0	- 45			V
	: BDW24A		- 60			V
	: BDW24B		- 80			V
	: BDW24C		- 100			V
I _{CBO}	Collector Cut-off Current					
	: BDW24	$V_{CB} = -45V, I_E = 0$			- 200	μA
	: BDW24A	$V_{CB} = -60V, I_E = 0$			- 200	μA
	: BDW24B	$V_{CB} = -80V, I_{E} = 0$			- 200	μA
	: BDW24C	$V_{CB} = -100V, I_E = 0$			- 200	μA
I _{CEO}	Collector Cut-off Current					
	: BDW24	$V_{CE} = -22V, I_{B} = 0$			- 500	μA
	: BDW24A	$V_{CE} = -30V, I_{B} = 0$			- 500	μA
	: BDW24B	$V_{CE} = -40V, I_{B} = 0$			- 500	μA
	: BDW24C	$V_{CE} = -50V, I_{B} = 0$			- 500	μA
ЕВО	Emitter Cut-off Current	$V_{EB} = -5V, I_{C} = 0$			- 2	mA
h _{FE}	* DC Current Gain	V _{CE} = - 3V, I _C = - 1A	1000			
		$V_{CE} = -3V, I_{C} = -2A$	750		20000	
		$V_{CE} = -3V, I_{C} = -6A$	100			
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	I _C = - 2A, I _B = - 8mA			- 2	V
		I _C = - 6A, I _B = - 60mA			- 3	V
V _{BE} (sat)	* Base-Emitter Saturation Voltage	I _C = - 2A, I _B = - 8mA			- 2.5	V
V _{BE} (on)	* Base-Emitter ON Voltage	V _{CE} = - 3V, I _C = - 1A			- 2.5	V
		$V_{CE} = -3V, I_{C} = -6A$			- 3	V
V _F	* Parallel Diode Forward Voltage	I _F = - 2A			- 1.8	V

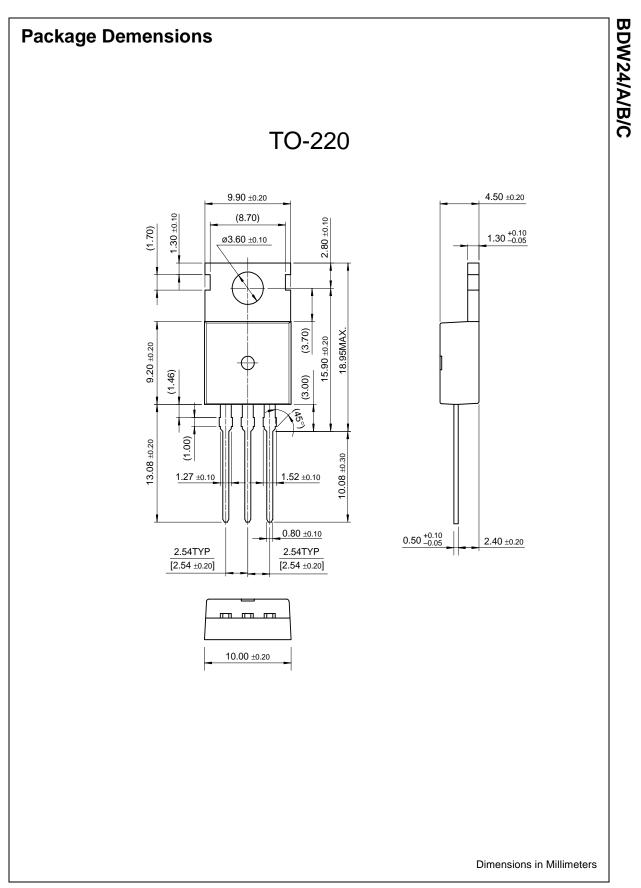
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Pulse Test: PW=300µs, duty Cycle =1.5% Pulsed



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