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July 2005

BDW94CF PNP Epitaxial Silicon Transistor

FAIRCHILD

SEMICONDUCTOR

BDW94CF PNP Epitaxial Silicon Transistor

WWW.DZ

Power Linear and Switching Application

- Power Darlington TR
- Complement to BDW93CF Respectively



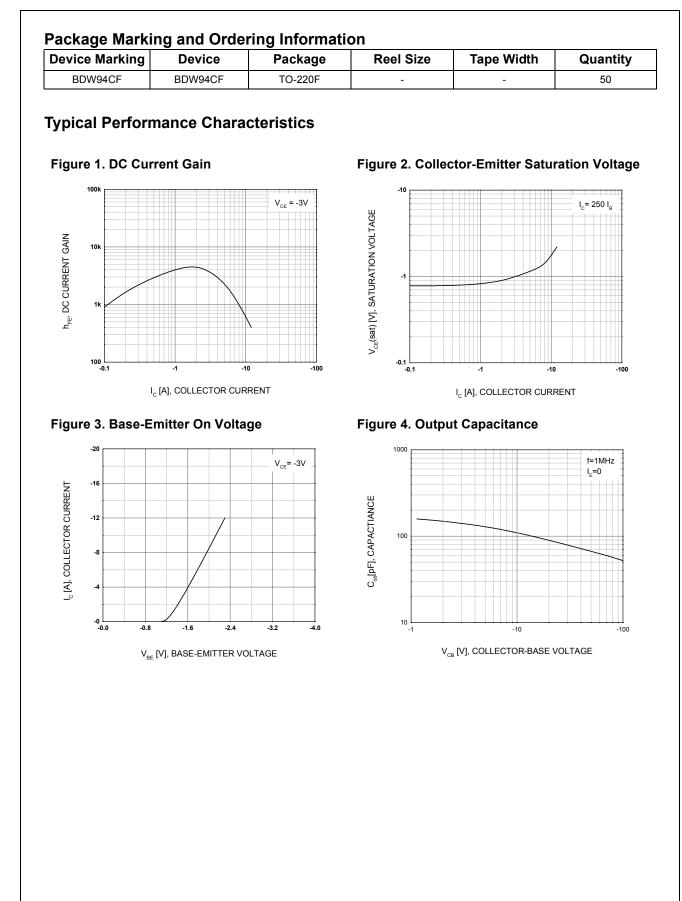
Absolute Maximum Ratings Ta = 25°C unless otherwise noted

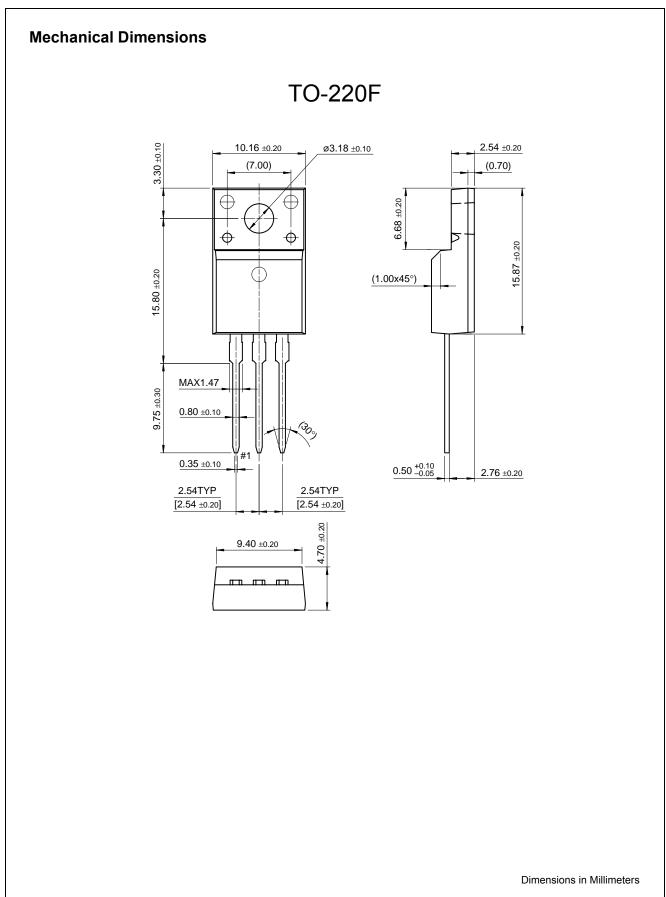
Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	-100	V
V _{CEO}	Collector-Emitter Voltage	-100 🥌 🥌	V
I _C	Collector Current (DC)	-12	А
I _{CP}	Collector Current (Pulse) *	-15	А
Ι _Β	Base Current	-0.2	A
P _C	Collector Dissipation (T _C = 25°C)	30	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-65 ~ 150	°C

Electrical Characteristics T_c = 25°C unless otherwise noted

Symbol	Parameter	Conditions	Min.	Тур.	Max	Units
V _{CEO(sus)}	Collector-Emitter Sustaining Voltage	I _C -100mA, I _B = 0	-100		03	V
I _{CBO}	Collector Cut-off Current	V _{CB} = -100V, I _E = 0	1	22	-100	μA
I _{CEO}	Collector Cut-off Current	VV _{CE} = -100V, I _B = 0		N 14 40	-1	mA
I _{EBO}	Emitter Cut-off Current	V _{EB} = -5V, I _C = 0			-2	mA
h _{FE}	DC Current Gain *	$V_{CE} = -3V, I_C = -3A$ $V_{CE} = -3V, I_C = -5A$ $V_{CE} = -3V, I_C = -10A$	1000 750 100		20000	
V _{CE(sat)}	Collector-Emitter Saturation Voltage *	$I_{C} = -5A, I_{B} = -20mA$ $I_{C} = -10A, I_{B} = -100mA$			-2 -3	V V
V _{BE(sat)}	Base-Emitter Saturation Voltage *	$I_{C} = -5A, I_{B} = -20mA$ $I_{C} = -10A, I_{B} = -100mA$			-2.5 -4	V V
V _F	Parallel Diode Forward Voltage *	I _F = -5A I _F = -10A		-1.3 -1.8	-2 -4	V V

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





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