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## **ON Semiconductor**®

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## FAIRCHILD

SEMICONDUCTOR TM

### BD244/A/B/C

## Medium Power Linear and Switching Applications

Complement to BD243, BD243A, BD243B and BD243C respectively



1.Base 2.Collector 3.Emitter

### **PNP Epitaxial Silicon Transistor**

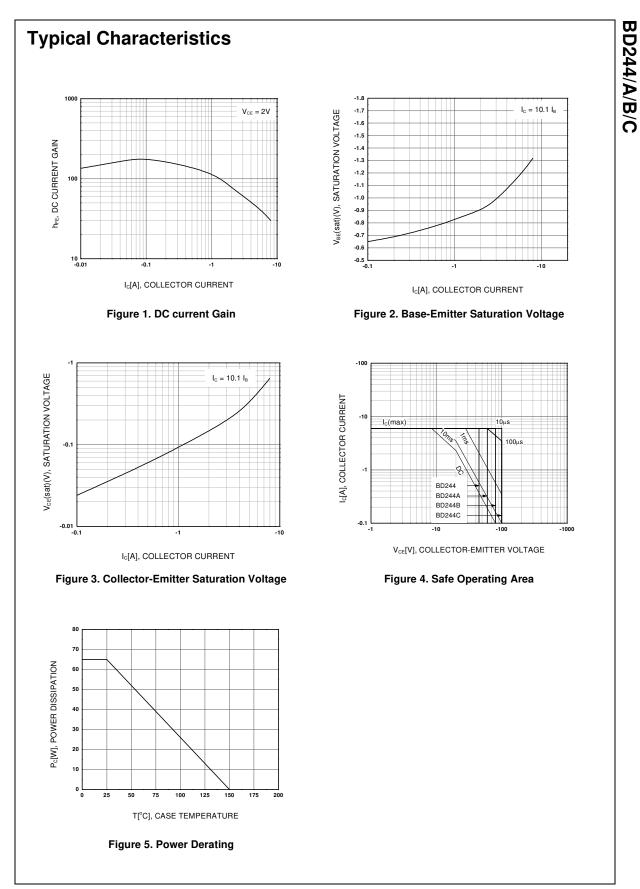
Absolute Maximum Ratings T<sub>C</sub>=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V <sub>CBO</sub>	Collector-Base Voltage		
	: BD244	- 45	V
	: BD244A	- 60	V
	: BD244B	- 80	V
	: BD244C	- 100	V
V <sub>CEO</sub>	Collector-Emitter Voltage		
	: BD244	- 45	V
	: BD244A	- 60	V
	: BD244B	- 80	V
	: BD244C	- 100	V
√ <sub>EBO</sub>	Emitter-Base Voltage	- 5	V
c	Collector Current (DC)	- 6	А
I <sub>CP</sub>	*Collector Current (Pulse)	- 10	А
I <sub>B</sub>	Base Current	- 2	А
P <sub>C</sub>	Collector Dissipation (T <sub>C</sub> =25°C)	65	W
Т <sub>Ј</sub>	Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature	- 65 ~ 150	°C

Electrical Characteristics T<sub>C</sub>=25°C unless otherwise noted

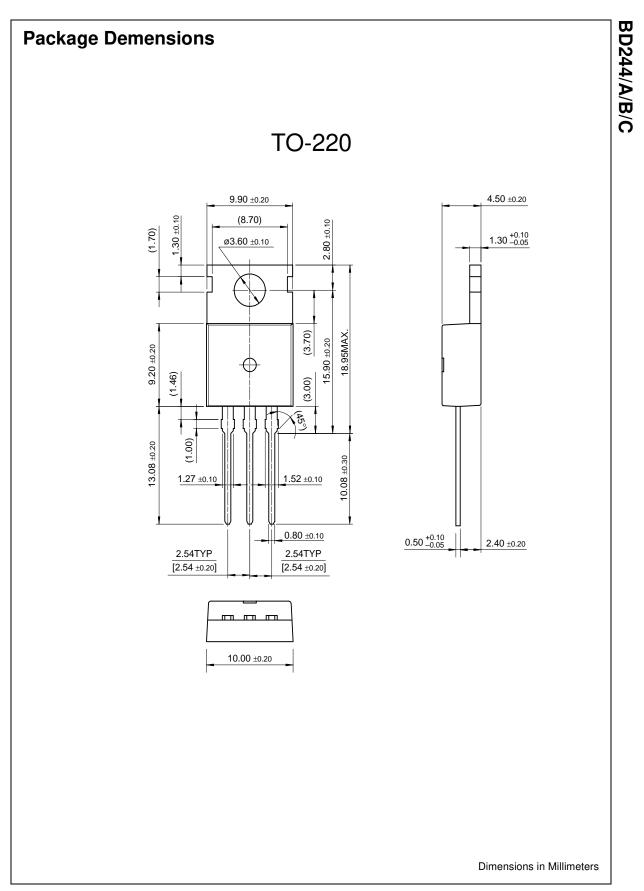
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
V <sub>CEO</sub> (sus)	* Collector-Emitter Sustaining Voltage					
0201	: BD244	I <sub>C</sub> = - 30mA, I <sub>B</sub> = 0	- 45			V
	: BD244A	5	- 60			V
	: BD244B		- 80			V
	: BD244C		- 100			V
I <sub>CEO</sub>	Collector Cut-off Current : BD244/2	4A $V_{CE} = -30V, I_B = 0$			- 0.7	mA
	: BD244B/	14C $V_{CE} = -60V, I_B = 0$			- 0.7	mA
I <sub>CES</sub>	Collector Cut-off Current : BD244	$V_{CE} = -45V, V_{BE} = 0$			- 0.4	mA
	: BD244A	$V_{CE} = -60V, V_{BE} = 0$			- 0.4	mA
	: BD244B	$V_{CE} = -80V, V_{BE} = 0$			- 0.4	mA
	: BD244C	$V_{CE} = -100V, V_{BE} = 0$			- 0.4	mA
I <sub>EBO</sub>	Emitter Cut-off Current	$V_{EB} = -5V, I_{C} = 0$			- 1	mA
h <sub>FE</sub>	* DC Current Gain	V <sub>CE</sub> = - 4V, I <sub>C</sub> = - 0.3A	30			
		$V_{CE} = -4V, I_{C} = -3A$	15			
V <sub>CE</sub> (sat)	* Collector-Emitter Saturation Voltage	I <sub>C</sub> = - 6A, I <sub>B</sub> = - 1A			- 1.5	V
V <sub>RE</sub> (on)	* Base-Emitter ON Voltage	$V_{CE} = -4V, I_{C} = -6A$			- 2	V

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SuperSOT™-8 SyncFET™ TinyLogic™ UHC™ VCX™

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