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Please note: As part of the Fairchild Semiconductor integration, some of the Fairchild orderable part numbers will need to change in order to meet ON Semiconductor's system requirements. Since the ON Semiconductor product management systems do not have the ability to manage part nomenclature that utilizes an underscore (_), the underscore (_) in the Fairchild part numbers will be changed to a dash (-). This document may contain device numbers with an underscore (_). Please check the ON Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.onsemi.com. Please email any questions regarding the system integration to Fairchild_questions@onsemi.com.

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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

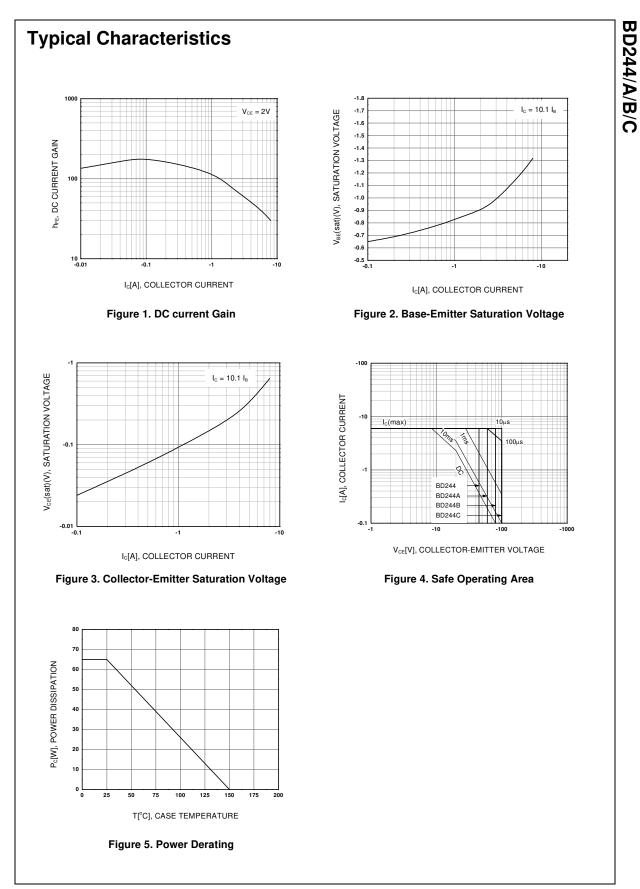
Absolute Maximum Ratings T_C=25°C unless otherwise noted

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

Electrical Characteristics T_C=25°C unless otherwise noted

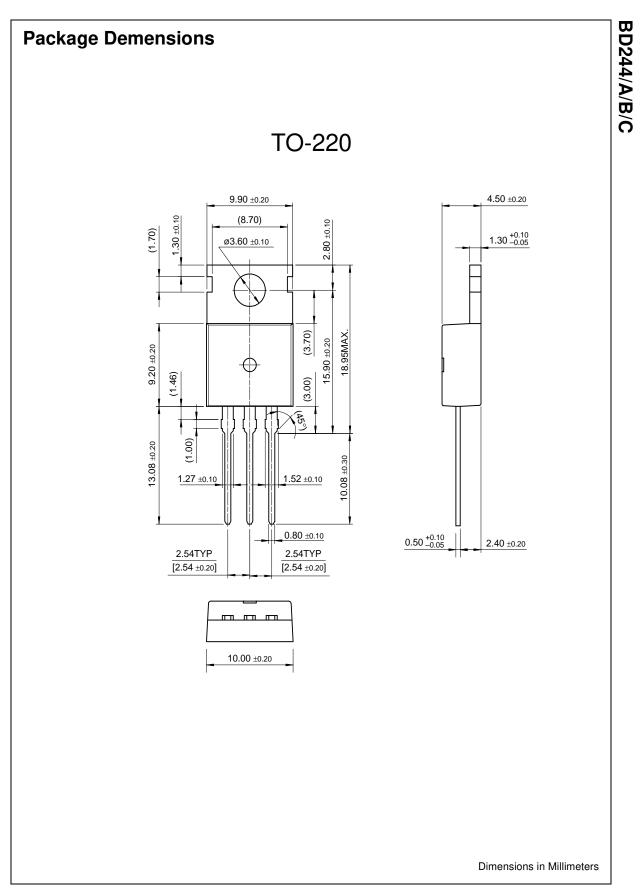
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
V _{CEO} (sus)	* Collector-Emitter Sustaining Voltage					
0201	: BD244	I _C = - 30mA, I _B = 0	- 45			V
	: BD244A	5	- 60			V
	: BD244B		- 80			V
	: BD244C		- 100			V
I _{CEO}	Collector Cut-off Current : BD244/2	4A $V_{CE} = -30V, I_B = 0$			- 0.7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

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Definition of Terms

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