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FAIRCHILD

SEMICONDUCTOR TM

BD243/A/B/C

Medium Power Linear and Switching Applications

Complement to BD244, BD244A, BD244B and BD244C respectively



1.Base 2.Collector 3.Emitter

NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage		
	: BD243	45	V
	: BD243A	60	V
	: BD243B	80	V
	: BD243C	100	V
V _{CEO}	Collector-Emitter Voltage		
	: BD243	45	V
	: BD243A	60	V
	: BD243B	80	V
	: BD243C	100	V
V _{EBO}	Emitter-Base Voltage	5	V
С	Collector Current (DC)	6	А
I _{CP}	*Collector Current (Pulse)	10	А
в	Base Current	2	А
P _C	Collector Dissipation (T _C =25°C)	65	W
Tj	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 65 ~ 150	°C

Electrical Characteristics T_C=25°C unless otherwise noted

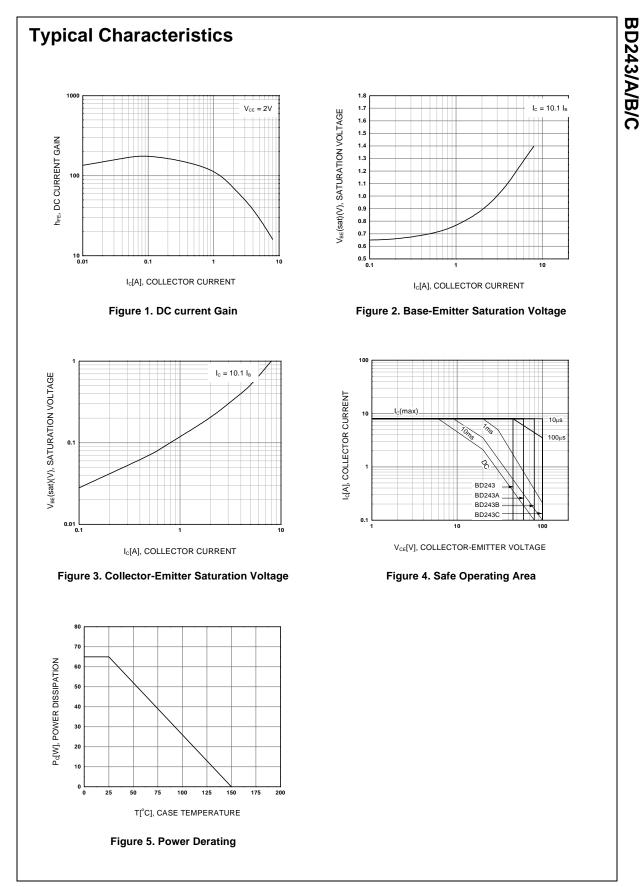
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
V _{CEO} (sus)	* Collector-Emitter Sustaining Voltage					
	: BD243	I _C =30mA, I _B =0	45			V
	: BD243A	-	60			V
	: BD243B		80			V
	: BD243C		100			V
I _{CEO}	Collector Cut-off Current : BD243/243A	$V_{CE} = 30V, I_{B} = 0$			0.7	mA
	: BD243B/243C	$V_{CE} = 60V, I_{B} = 0$			0.7	mA
I _{CES}	Collector Cut-off Current : BD243	$V_{CE} = 45V, V_{BE} = 0$			0.4	mA
	: BD243A	$V_{CE} = 60V, V_{BE} = 0$			0.4	mA
	: BD243B	$V_{CE} = 80V, V_{BE} = 0$			0.4	mA
	: BD243C	$V_{CE} = 100V, V_{BE} = 0$			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 _{BE} (on)	*Base-Emitter ON Voltage	$V_{CE} = 4V, I_{C} = 6A$			2	V

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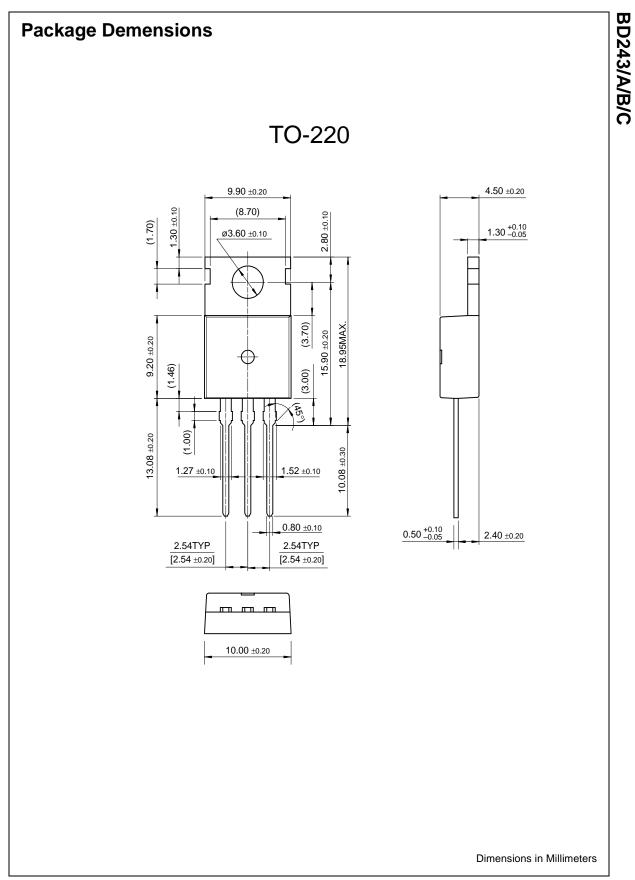
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BD243/A/B/C



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Rev. A, February 2000



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Definition of Terms

Datasheet Identification	Product Status	Definition
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