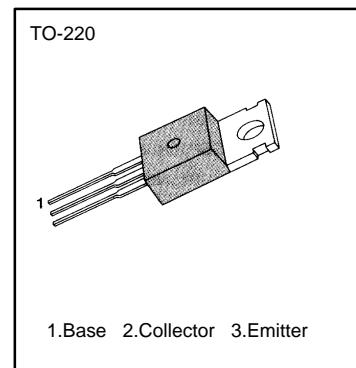


**MEDIUM POWER LINEAR AND SWITCHING
APPLICATIONS**

- Complement to BD244, BD244A, BD244B and BD244C respectively

ABSOLUTE MAXIMUM RATINGS

Characteristic	Symbol	Rating	Unit
Collector-Emitter Voltage : BD243 : BD243A : BD243B : BD243C	V_{CBO}	45	V
		60	V
		80	V
		100	V
Collector Emitter Voltage : BD243 : BD243A : BD243B : BD243C	V_{CEO}	45	V
		60	V
		80	V
		100	V
Emitter Base Voltage	V_{EBO}	5	V
Collector Current (DC)	I_C	6	A
Collector Current (Pulse)	I_C	10	A
Base Current	I_B	2	A
Collector Dissipation ($T_c=25^\circ C$)	P_C	65	W
Junction Temperature	T_J	150	$^\circ C$
Storage Temperature	T_{STG}	-65 ~ 150	$^\circ C$


ELECTRICAL CHARACTERISTICS ($T_c=25^\circ C$)

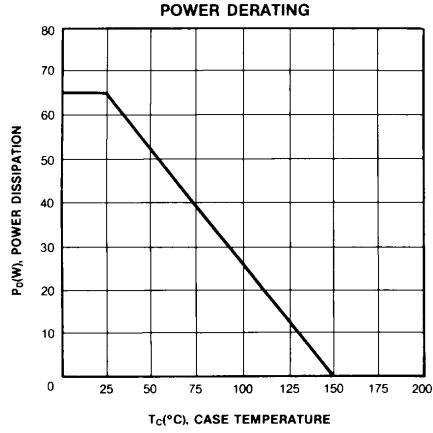
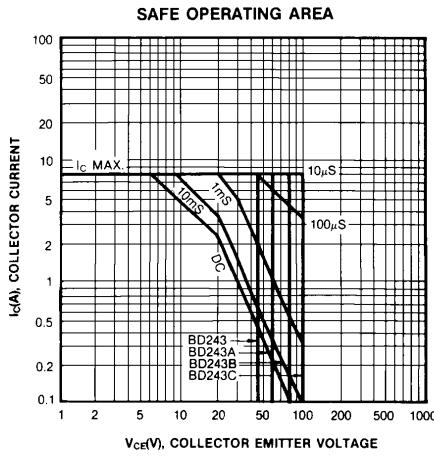
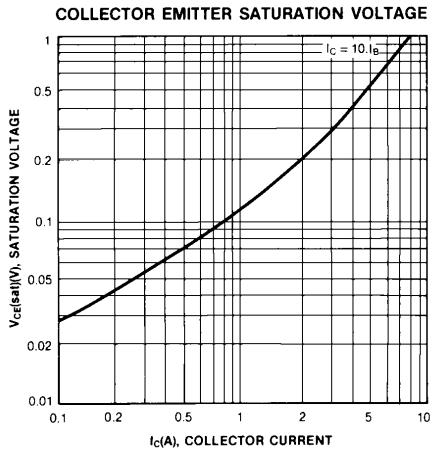
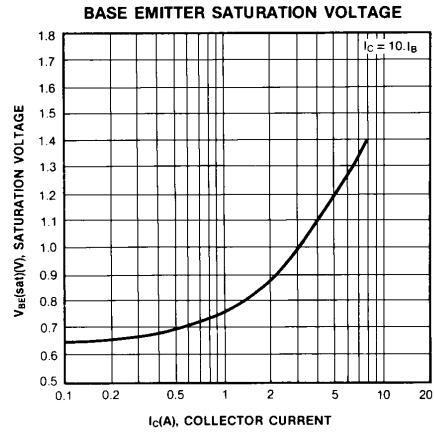
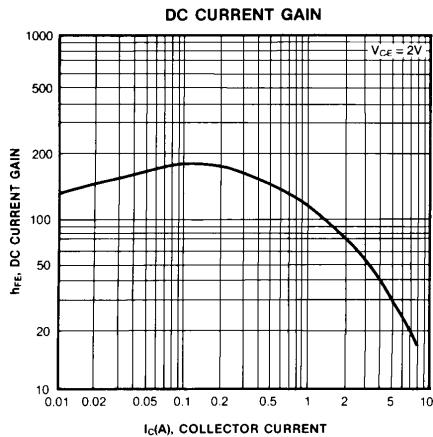
Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
* Collector Emitter Sustaining Voltage : BD243 : BD243A : BD243B : BD243C	$V_{CEO(sus)}$	$I_C=30mA, I_B=0$	45			V
			60			V
			80			V
			100			V
Collector Cutoff Current : BD243/243A : BD243B/243C	I_{CEO}	$V_{CE} = 30V, I_B = 0$ $V_{CE} = 60V, I_B = 0$		0.7		mA
Collector Cutoff Current : BD243 : BD243A : BD243B : BD243C	I_{CES}	$V_{CE} = 45V, V_{BE} = 0$ $V_{CE} = 60V, V_{BE} = 0$ $V_{CE} = 80V, V_{BE} = 0$ $V_{CE} = 100V, V_{BE} = 0$		0.4		mA
				0.4		mA
				0.4		mA
				0.4		mA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 5V, I_C = 0$		1		mA
*DC Current Gain	h_{FE}	$V_{CE} = 4V, I_C = 0.3A$ $V_{CE} = 4V, I_C = 3A$	30			
*Collector Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 6A, I_B = 1A$		1.5		V
*Base Emitter On Voltage	$V_{BE(on)}$	$V_{CE} = 4V, I_C = 6A$	15		2	V

* Pulse Test : PW=300μs, duty Cycle<20% Pulsed

Rev. B

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