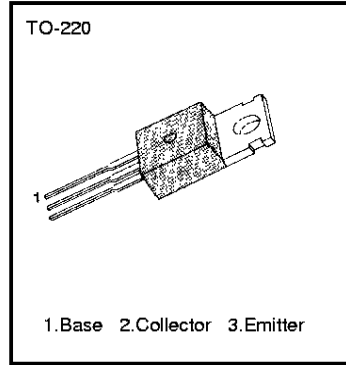


MEDIUM POWER LINEAR AND SWITCHING APPLICATIONS

- Complement to BD244, BD244A, BD244B and BD244C respectively

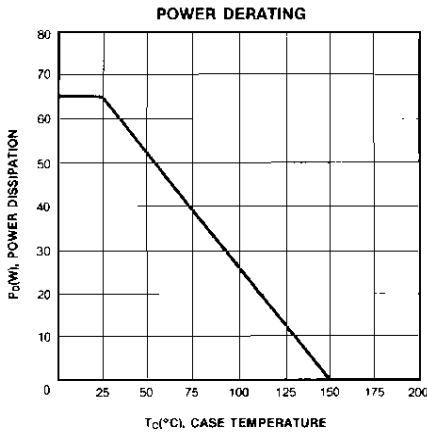
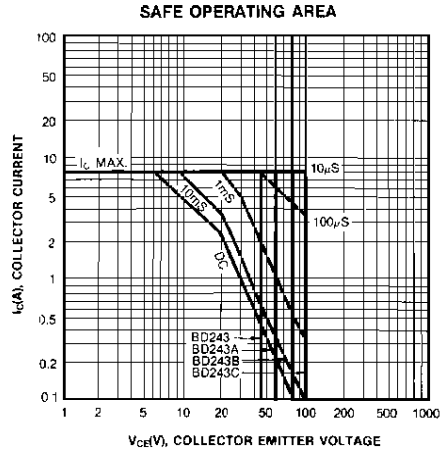
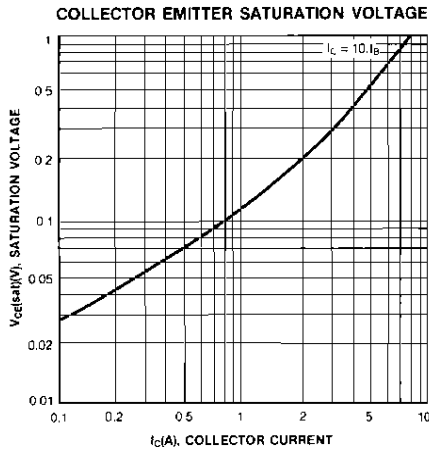
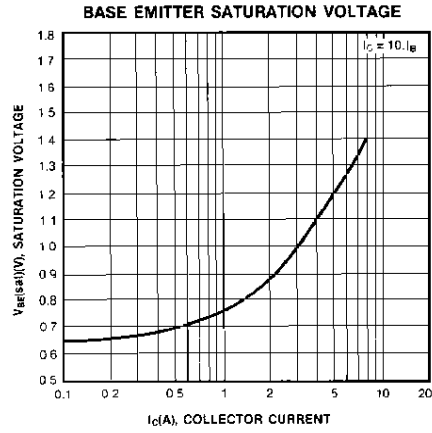
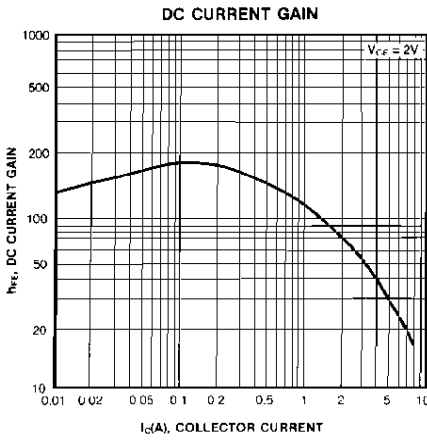
ABSOLUTE MAXIMUM RATINGS

Characteristic	Symbol	Rating	Unit
Collector-Emitter Voltage : BD243	V_{CE0}	45	V
: BD243A		60	V
: BD243B		80	V
: BD243C		100	V
Collector Emitter Voltage : BD243	V_{CE0}	45	V
: BD243A		60	V
: BD243B		80	V
: BD243C		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 ($T_C=25^\circ\text{C}$)	P_C	65	W
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{STG}	-65 ~ 150	$^\circ\text{C}$


ELECTRICAL CHARACTERISTICS ($T_C=25^\circ\text{C}$)

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
* Collector Emitter Sustaining Voltage : BD243	$V_{CE0(sus)}$	$I_C=30\text{mA}, I_B=0$	45			V
: BD243A			60			V
: BD243B			80			V
: BD243C			100			V
Collector Cutoff Current : BD243/243A	I_{CEO}	$V_{CE} = 30\text{V}, I_B = 0$			0.7	mA
: BD243B/243C		$V_{CE} = 60\text{V}, I_B = 0$			0.7	mA
Collector Cutoff Current : BD243	I_{CES}	$V_{CE} = 45\text{V}, V_{BE} = 0$			0.4	mA
: BD243A		$V_{CE} = 60\text{V}, V_{BE} = 0$			0.4	mA
: BD243B		$V_{CE} = 80\text{V}, V_{BE} = 0$			0.4	mA
: BD243C		$V_{CE} = 100\text{V}, V_{BE} = 0$			0.4	mA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 5\text{V}, I_C = 0$			1	mA
*DC Current Gain	h_{FE}	$V_{CE} = 4\text{V}, I_C = 0.3\text{A}$	30			
		$V_{CE} = 4\text{V}, I_C = 3\text{A}$	15			
*Collector Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 6\text{A}, I_B = 1\text{A}$			1.5	V
*Base Emitter On Voltage	$V_{BE(on)}$	$V_{CE} = 4\text{V}, I_C = 6\text{A}$			2	V

* Pulse Test : $PW=300\mu\text{s}$, duty Cycle < 20% Pulsed



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FACT™	QS™
FACT Quiet Series™	Quiet Series™
FAST®	SuperSOT™-3
FAST _r ™	SuperSOT™-6
GTO™	SuperSOT™-8
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Definition of Terms

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