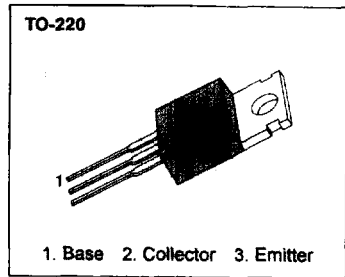


MEDIUM POWER LINEAR AND SWITCHING APPLICATIONS

- Complement to BD244, BD244A, BD244B and BD244C respectively

ABSOLUTE MAXIMUM RATINGS

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

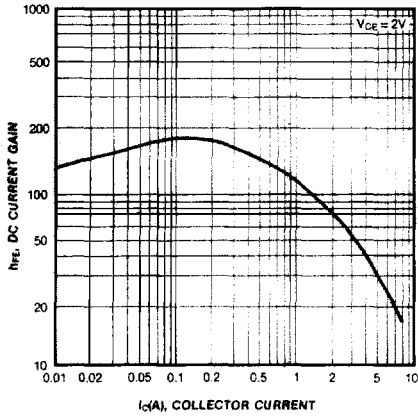


ELECTRICAL CHARACTERISTICS ($T_c=25^\circ C$)

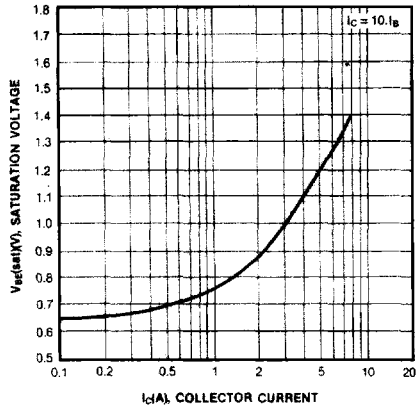
Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
* Collector Emitter Sustaining Voltage : BD243	$V_{CEO(SUS)}$	$I_C=30mA, I_B=0$	45			V
: BD243A			60			V
: BD243B			80			V
: BD243C			100			V
Collector Cutoff Current : BD243/243A	I_{CEO}	$V_{CE} = 30V, I_B = 0$			0.7	mA
: BD243B/243C		$V_{CE} =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

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

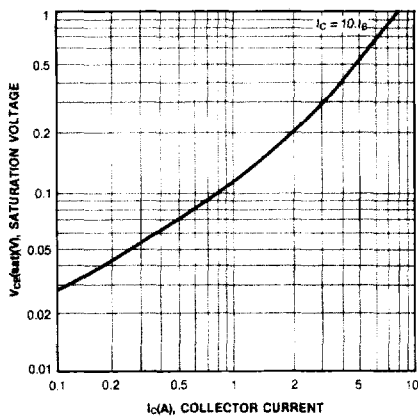
DC CURRENT GAIN



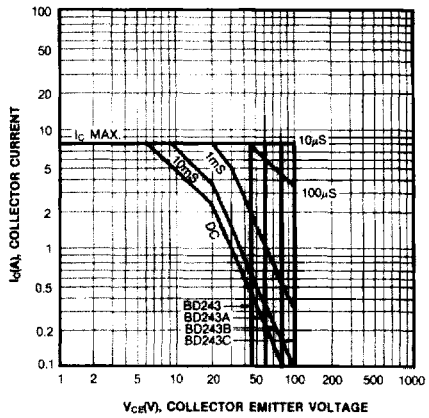
BASE EMITTER SATURATION VOLTAGE



COLLECTOR EMITTER SATURATION VOLTAGE



SAFE OPERATING AREA



POWER DERATING

