

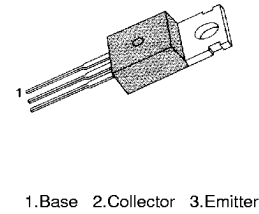
MEDIUM POWER LINEAR AND SWITCHING APPLICATIONS

- Complement to BD243, BD243A, BD243B and BD243C respectively

ABSOLUTE MAXIMUM RATINGS

Characteristic	Symbol	Rating	Unit
Collector-Emitter Voltage : BD244	V_{CBO}	- 45	V
: BD244A		- 60	V
: BD244B		- 80	V
: BD244C		- 100	V
Collector Emitter Voltage : BD244	V_{CEO}	- 45	V
: BD244A		- 60	V
: BD244B		- 80	V
: BD244C		- 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	$^\circ\text{C}$

TO-220



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

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
* Collector Emitter Sustaining Voltage : BD244	$V_{CEO(sus)}$	$I_C = - 30\text{mA}, I_B = 0$	- 45			V
: BD244A			- 60			V
: BD244B			- 80			V
: BD244C			- 100			V
Collector Cutoff Current : BD244/244A	I_{CEO}	$V_{CE} = - 30\text{V}, I_B = 0$			- 0.7	mA
: BD244B/244C		$V_{CE} = - 60\text{V}, I_B = 0$			- 0.7	mA
Collector Cutoff Current : BD244	I_{CES}	$V_{CE} = - 45\text{V}, V_{BE} = 0$			- 0.4	mA
: BD244A		$V_{CE} = - 60\text{V}, V_{BE} = 0$			- 0.4	mA
: BD244B		$V_{CE} = - 80\text{V}, V_{BE} = 0$			- 0.4	mA
: BD244C		$V_{CE} = - 100\text{V}, V_{BE} = 0$			- 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<2% Pulsed