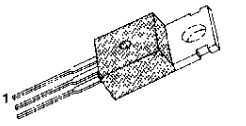
BD244/A/B/C PNP EPITAXIAL SILICON TRANSISTOR

MEDIUM POWER LINEAR AND SWITCHING APPLICATIONS

• Complement to BD243, BD243A, BD243B and BD243C respectively

TO-220



1.Base 2.Collector 3.Emitter

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°C)	P_C	65	W
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-65 ~ 150	°C

ELECTRICAL CHARACTERISTICS (T_C=25°C)

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
* Collector Emitter Sustaining Voltage : BD244	V_{CEO}(sus)	I_C = - 30mA, I_B = 0	- 45			V
: BD244A			- 60			V
: BD244B			- 80			V
: BD244C			- 100			V
Collector Cutoff Current : BD244/244A	I_{CEO}	V_{CE} = - 30V, I_B = 0			- 0.7	mA
: BD244B/244C		V_{CE} = - 60V, I_B = 0			- 0.7	mA
Collector Cutoff Current : BD244	I_{CES}	V_{CE} = - 45V, V_{BE} = 0			- 0.4	mA
: BD244A		V_{CE} = - 60V, V_{BE} = 0			- 0.4	mA
: BD244B		V_{CE} = - 80V, V_{BE} = 0			- 0.4	mA
: BD244C		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=300μs, duty Cycle<2% Pulsed

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