



BD244 – A – B – C

SILICON PNP POWER TRANSISTORS

The BD244 series are PNP power transistors in a TO-220 envelope. They are intended for use in medium power linear and switching applications. The complementary is BD243, A, B, C
Compliance to RoHS.

ABSOLUTE MAXIMUM RATINGS

Symbol	Ratings	Value	Unit	
V_{CEO}	Collector-Emitter Voltage ($I_B = 0mA$)	BD244	-45	V
		BD244A	-60	
		BD244B	-80	
		BD244C	-100	
V_{CBO}	Collector-Base Voltage ($I_E = 0mA$)	BD244	-45	V
		BD244A	-60	
		BD244B	-80	
		BD244C	-100	
V_{EBO}	Emitter-Base Voltage ($I_C = 0mA$)	-5.0	V	
I_C	Collector Current	-6	A	
I_{CM}	Collector Current-Peak	-10		
I_B	Base Current	-2	A	
P_T	Collector Power Dissipation	$T_C = 25^\circ C$ 65	W	
T_J	Junction Temperature	150	$^\circ C$	
T_S	Storage Temperature	-65 to +150		

THERMAL CHARACTERISTICS

Symbol	Ratings	Value	Unit
R_{thJC}	Junction to Case Thermal Resistance	1.92	$^\circ C / W$
R_{thJA}	Junction to free air Thermal Resistance	62.5	$^\circ C / W$



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ELECTRICAL CHARACTERISTICS

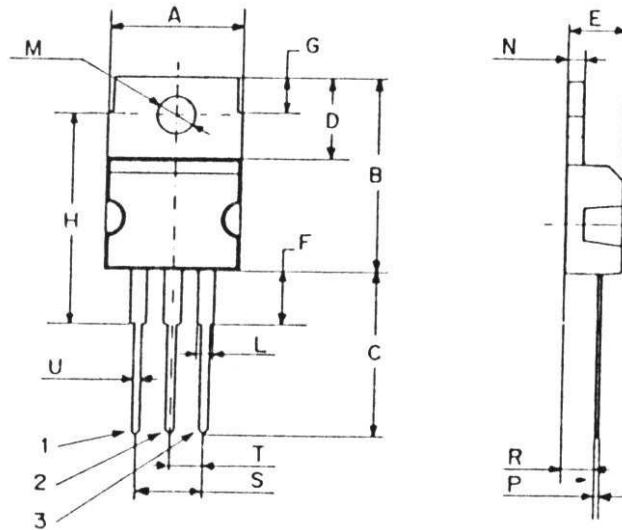
TC=25°C unless otherwise noted

Symbol	Ratings	Test Condition(s)	Min	Typ	Max	Unit	
I_{CES}	Collector- Emitter Cut-off Current	$V_{CE} = -45\text{ V}, V_{BE} = 0$ BD244	-	-	-0.4	mA	
		$V_{CE} = -60\text{ V}, V_{BE} = 0$ BD244A					
		$V_{CE} = -80\text{ V}, V_{BE} = 0$ BD244B					
		$V_{CE} = -100\text{ V}, V_{BE} = 0$ BD244C					
I_{CEO}	Collector Cut-off Current	$V_{CE} = -30\text{ V}, I_B = 0$ BD244	-	-	-0.7	mA	
		$V_{CE} = -30\text{ V}, I_B = 0$ BD244A					
		$V_{CE} = -60\text{ V}, I_B = 0$ BD244B					
		$V_{CE} = -60\text{ V}, I_B = 0$ BD244C					
I_{EBO}	Emitter Cut-off Current	$V_{EB} = -5\text{ V}, I_C = 0$	-	-	-1	mA	
V_{CEO}	Collector- Emitter Breakdown Voltage (*)	$I_C = -30\text{ mA}, I_B = 0$	BD244	-45	-	-	V
			BD244A	-60	-	-	
			BD244B	-80	-	-	
			BD244C	-100	-	-	
h_{FE}	DC Current Gain (*)	$V_{CE} = -4\text{ V}, I_C = -0.3\text{ A}$	30	-	-	-	
		$V_{CE} = -4\text{ V}, I_C = -3\text{ A}$	15	-	-		
$V_{CE(SAT)}$	Collector-Emitter saturation Voltage (*)	$I_C = -6\text{ A}, I_B = -1\text{ A}$	-	-	-1.5	V	
V_{BE}	Base-Emitter Voltage(*)	$V_{CE} = -4\text{ V}, I_C = -6\text{ A}$	-	-	-2	V	

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MECHANICAL DATA CASE TO-220

DIMENSIONS (mm)		
	Min.	Max.
A	9,90	10,30
B	15,65	15,90
C	13,20	13,40
D	6,45	6,65
E	4,30	4,50
F	2,70	3,15
G	2,60	3,00
H	15,75	17,15
L	1,15	1,40
M	3,50	3,70
N	-	1,37
P	0,46	0,55
R	2,50	2,70
S	4,98	5,08
T	2,49	2,54
U	0,70	0,90



Pin 1 :	Base
Pin 2 :	Collector
Pin 3 :	Emitter
Package	Collector

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