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° C	65	W
T_J	Junction Temperature		150	°C
T_S	Storage Temperature		-65 to +150	

THERMAL CHARACTERISTICS

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

BD244 – A – B – C

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

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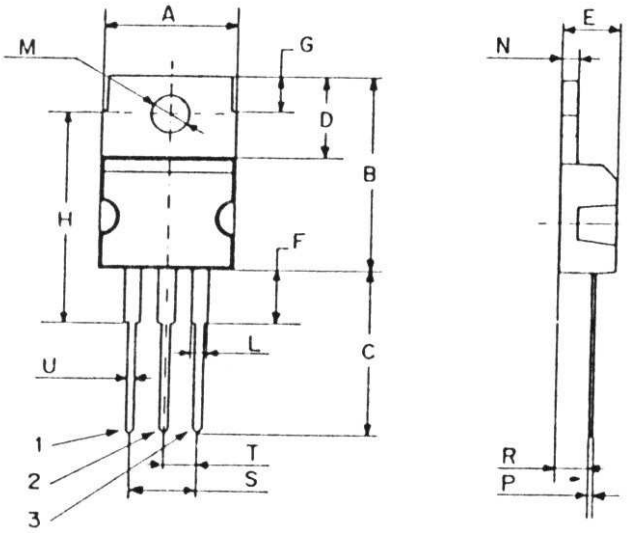
MECHANICAL DATA CASE TO-220

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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