

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	
		BD244A	-60	V
		BD244B	-80	V
		BD244C	-100	
V _{сво}		BD244	-45	
	Collector-Base Voltage (I _E = 0mA)	BD244A	-60	N/
		BD244B	-80	V
		BD244C	-100	
V _{EBO}	Emitter-Base Voltage(I _c = 0mA)		-5.0	V
I _c	Collector Current		-6	^
I _{CM}	Collector Current-Peak		-10	A
I _B	Base Current		-2	А
Ρτ	Collector Power Dissipation	$T_{\rm C} = 25^{\circ}$ C	65	W
TJ	Junction Temperature		150	°C
Ts	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



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ELECTRICAL CHARACTERISTICS

TC=25°C unless otherwise noted

Symbol	Ratings	Test Condition	(s)	Min	Тур	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				
		$V_{CE} = -80 \text{ V}$, $V_{BE} = 0$	BD244B				
		V _{CE} = -100 V , V _{BE} = 0	BD244C				
I _{CEO}	Collector Cut-off Current	$V_{CE} = -30 \text{ V}$, $I_B = 0$	BD244			-0.7	mA
			BD244A				
		$V_{CE} = -60 \text{ V}$, $I_B = 0$	BD244B		-		
			BD244C				
I _{EBO}	Emitter Cut-off Current	$V_{EB} = -5 V$, $I_{C} = 0$		-	-	-1	mA
	Collector- Emitter	I _C = -30 mA, I _B = 0	BD244	-45	-	-	V
V _{CEO}			BD244A	-60	-	-	
▼ CEO	Breakdown Voltage (*)	$1_{\rm C} = -30$ mA, $1_{\rm B} = 0$	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

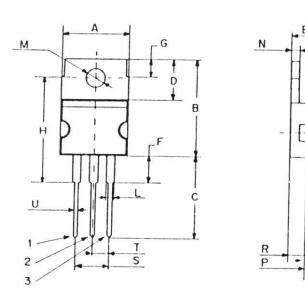


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MECHANICAL DATA CASE TO-220

DIMENSIONS (mm)				
	Min.	Max.		
A	9,90	10,30		
B C D E F	15,65	15,90		
С	13,20	13,40		
D	6,45	6,65		
E	4,30	4,50		
F	2,70	3,15		
G H L M N	2,60	3,00		
Н	15,75	17.15		
L	1,15	1,40		
М	3,50	3,70		
N	-	1,37		
Р	0,46	0,55		
R S T	2,50	2,70		
S	4,98	5,08		
Т	2.49	2.54		
U	0,70	0,90		

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



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info@comsetsemi.com