

DESCRIPTION

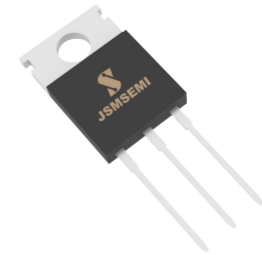
- With TO-220C package
- Complement to type BD243/A/B/C

APPLICATIONS

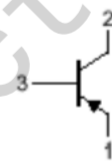
- For medium power linear and switching applications

PINNING

PIN	DESCRIPTION
1	Emitter
2	Collector; connected to mounting base
3	Base



TO-220


Absolute maximum ratings (Ta=25°C)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{CBO}	Collector-base voltage	BD244	-45	V
		BD244A	-60	
		BD244B	-80	
		BD244C	-100	
V _{CEO}	Collector-emitter voltage	BD244	-45	V
		BD244A	-60	
		BD244B	-80	
		BD244C	-100	
V _{EBO}	Emitter-base voltage	Open collector	-5	V
I _C	Collector current		-6	A
I _{CM}	Collector current-peak		-10	A
I _B	Base current		-2	A
P _C	Collector power dissipation	T _C =25°C	65	W
T _J	Junction temperature		150	°C
T _{stg}	Storage temperature		-65~150	°C

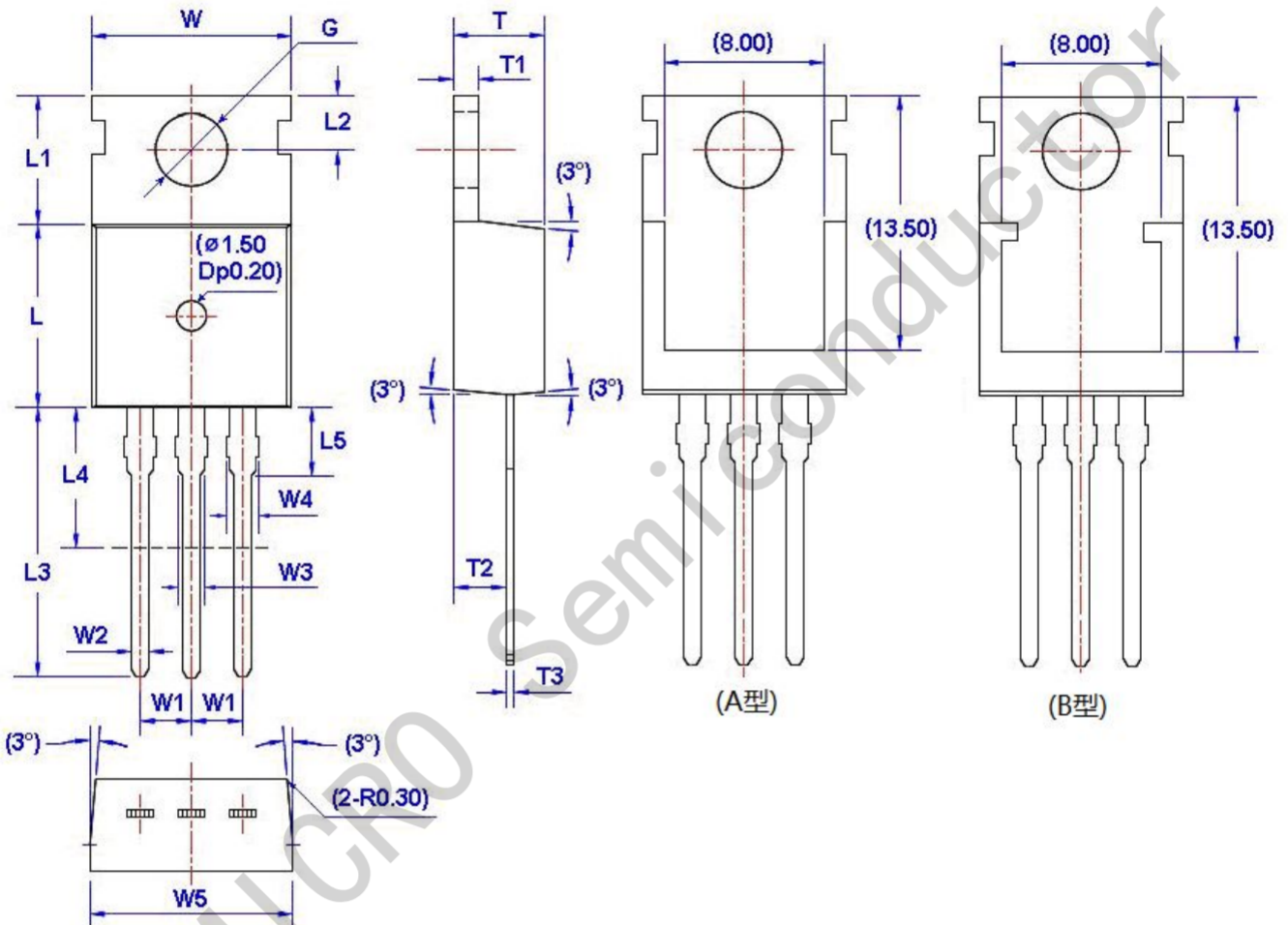
CHARACTERISTICS

 T_j=25°C unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-emitter sustaining voltage	BD244	I _C =-30mA; I _B =0	-45			V
		BD244A		-60			
		BD244B		-80			
		BD244C		-100			
V _{CEsat}	Collector-emitter saturation voltage		I _C =-6A; I _B =-1 A			-1.5	V
V _{BE}	Base-emitter on voltage		I _C =-6A; V _{CE} =-4V			-2.0	V
I _{CEO}	Collector cut-off current	BD244/A	V _{CE} =-30V; I _B =0			-0.7	mA
		BD244B/C	V _{CE} =-60V; I _B =0				
I _{CES}	Collector cut-off current	BD244	V _{CE} =-45V; V _{BE} =0			-0.4	mA
		BD244A	V _{CE} =-60V; V _{BE} =0				
		BD244B	V _{CE} =-80V; V _{BE} =0				
		BD244C	V _{CE} =-100V; V _{BE} =0				
I _{EBO}	Emitter cut-off current		V _{EB} =-5V; I _C =0			1	mA
h _{FE-1}	DC current gain		I _C =-0.3A; V _{CE} =-4V	30			
h _{FE-2}	DC current gain		I _C =-3A; V _{CE} =-4V	15			

Package Information

TO-220



Unit: mm

Symbol	Size		Symbol	Size		Symbol	Size		Symbol	Size	
	Min	Max		Min	Max		Min	Max		Min	Max
W	9.66	10.28	W5	9.80	10.20	L4**	6.20	6.60	T3	0.45	0.60
W1	2.54 (TYP)		L	9.00	9.40	L5	2.79	3.30	G(Φ)	3.50	3.70
W2	0.70	0.95	L1	6.40	6.80	T	4.30	4.70			
W3	1.17	1.37	L2	2.70	2.90	T1	1.15	1.40			
W4*	1.32	1.72	L3	12.70	14.27	T2	2.20	2.60			