

TO-126 Plastic-Encapsulate Transistors

BD234/236/238 TRANSISTOR (PNP)

FEATURES

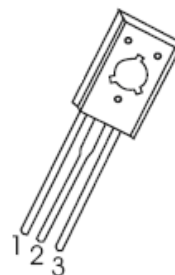
Power Dissipation

MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	BD234	-45
		BD236	-60
		BD238	-100
V _{CEO}	Collector-Emitter Voltage	BD234	-45
		BD236	-60
		BD238	-80
V _{EBO}	Emitter-Base Voltage	BD234	-5
		BD236	-5
		BD238	-5
I _C	Collector Current –Continuous	-2	A
P _C	Collector Power Dissipation	1.25	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	°C

TO-126

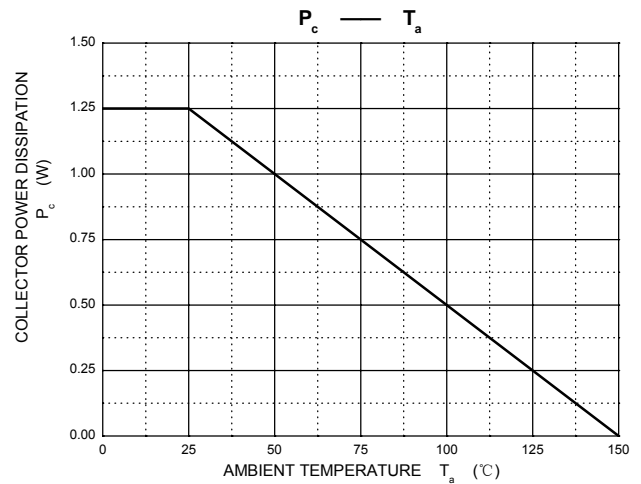
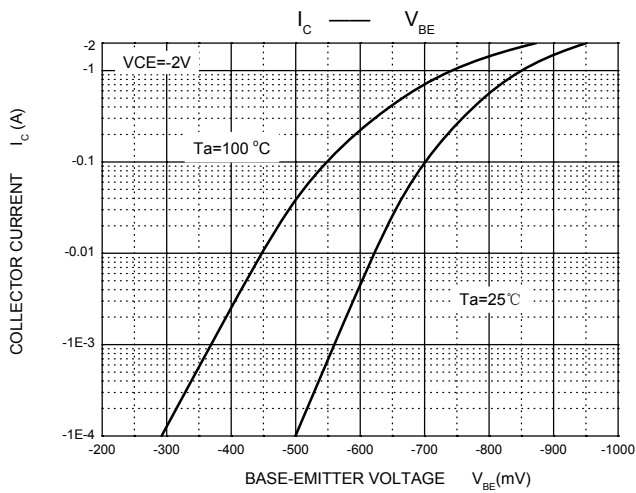
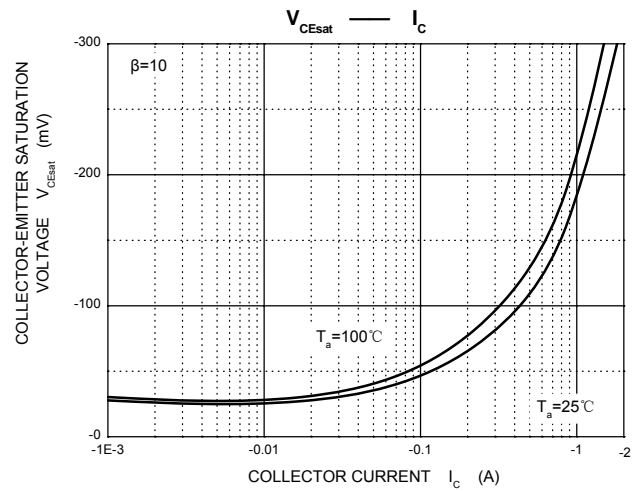
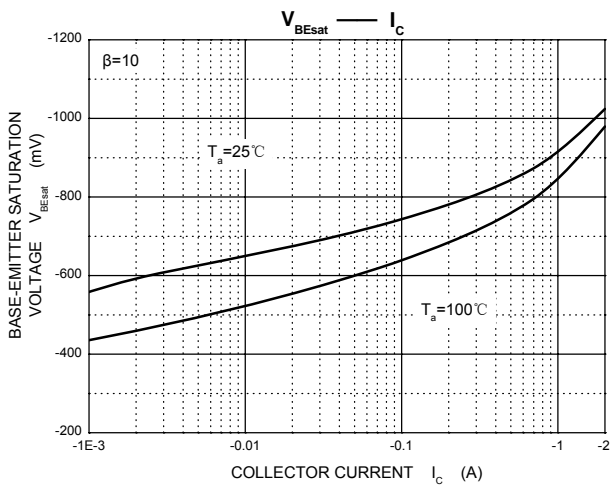
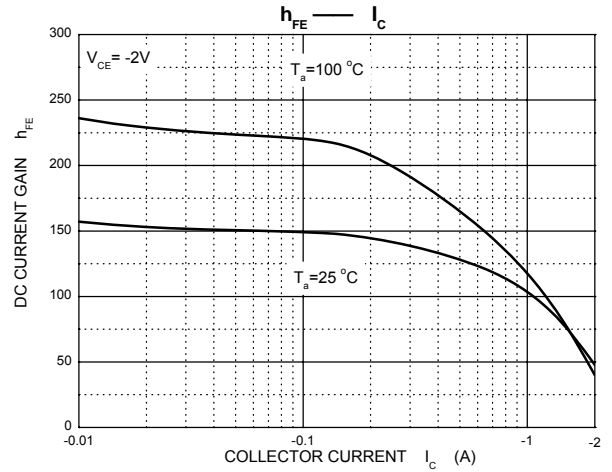
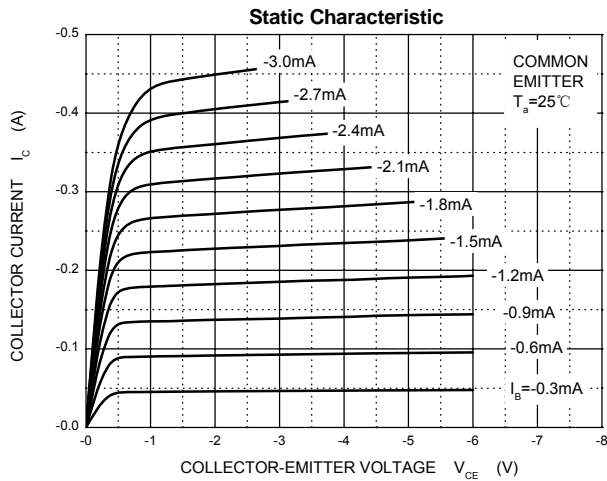
1. EMITTER
2. COLLECTOR
3. BASE



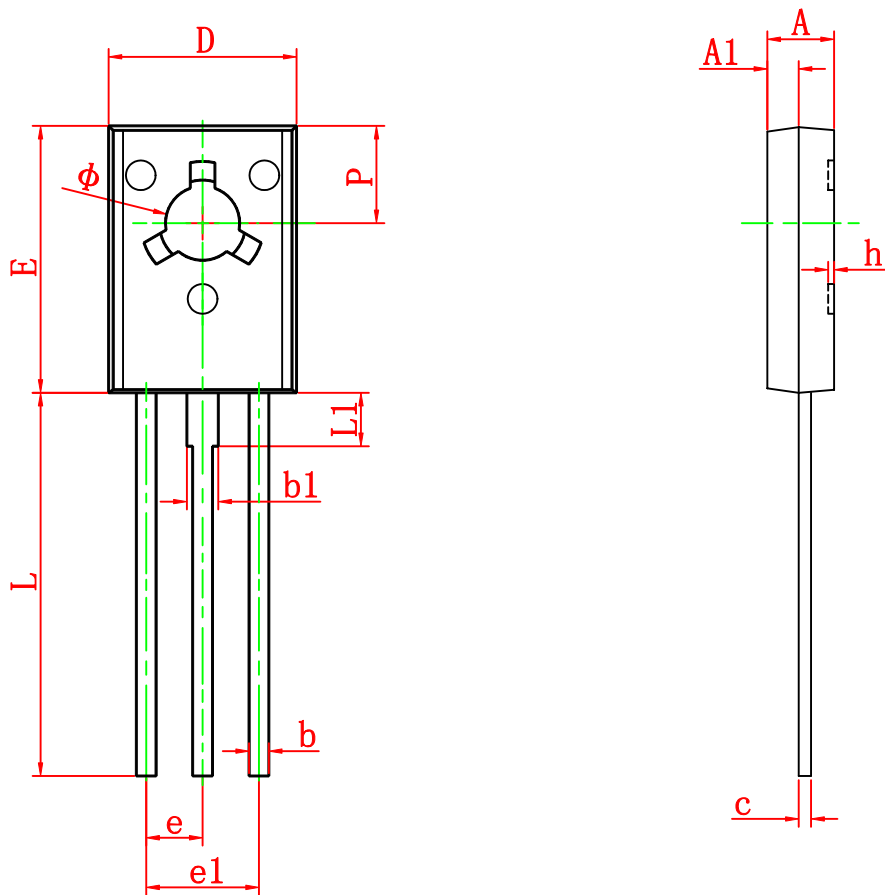
ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	BD234 BD236 BD238	V _{(BR)CBO} I _C =-1mA, I _E =0	-45		V
			-60		
			-100		
Collector-emitter breakdown voltage	BD234 BD236 BD238	V _{(BR)CEO} I _C =-100mA, I _B =0	-45		V
			-60		
			-80		
Emitter-base breakdown voltage		V _{(BR)EBO} I _E =-1mA, I _C =0	-5		V
Collector cut-off current	BD234 BD236 BD238	I _{CBO} V _{CB} =-45V, I _E =0 V _{CB} =-60V, I _E =0 V _{CB} =-100V, I _E =0		-100	μA
Emitter cut-off current		I _{EBO} V _{EB} =-5V, I _C =0		-1	mA
DC current gain	h _{FE(1)} h _{FE(2)}	V _{CE} =-2V, I _C =-150mA V _{CE} =-2V, I _C =-1A	40		
			25		
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-1A, I _B =-100mA		-0.6	V
Transition frequency	f _T	V _{CE} =-10V, I _C =-250mA, f = 10MHz	3		MHz

Typical Characteristics



TO-126 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	2.500	2.900	0.098	0.114
A1	1.100	1.500	0.043	0.059
b	0.660	0.860	0.026	0.034
b1	1.170	1.370	0.046	0.054
c	0.450	0.600	0.018	0.024
D	7.400	7.800	0.291	0.307
E	10.600	11.000	0.417	0.433
e	2.290 TYP		0.090 TYP	
e1	4.480	4.680	0.176	0.184
h	0.000	0.300	0.000	0.012
L	15.300	15.700	0.602	0.618
L1	2.100	2.300	0.083	0.091
P	3.900	4.100	0.154	0.161
Φ	3.000	3.200	0.118	0.126

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