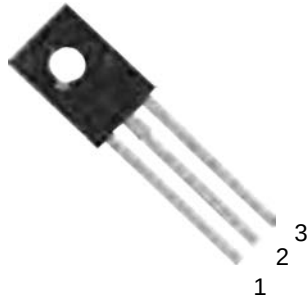


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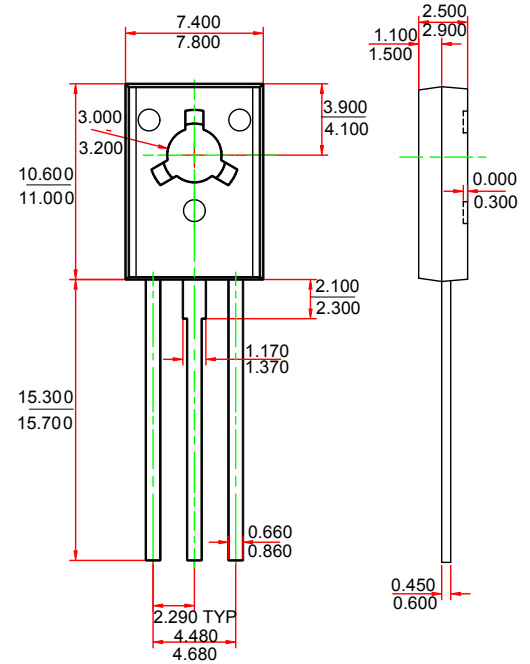
1. EMITTER
2. COLLECTOR
3. BASE

Features

- ✧ Complement to BD 234/236/238 respectively

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

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	BD233	45
		BD235	60
		BD237	100
V _{CEO}	Collector-Emitter Voltage	BD233	45
		BD235	60
		BD237	80
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current –Continuous	2	A
P _C *	Collector Dissipation	1.25	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-65-150	°C

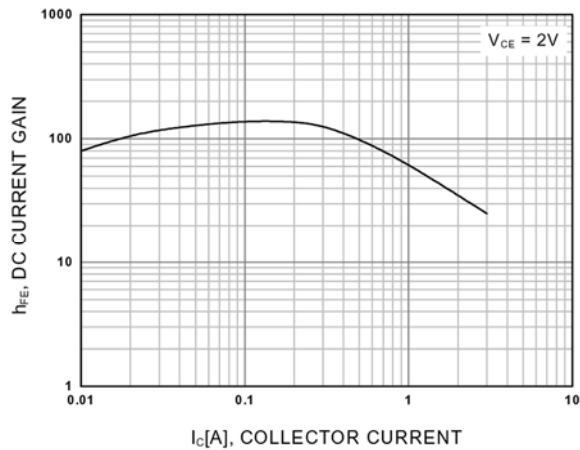


Dimensions in inches and (millimeters)

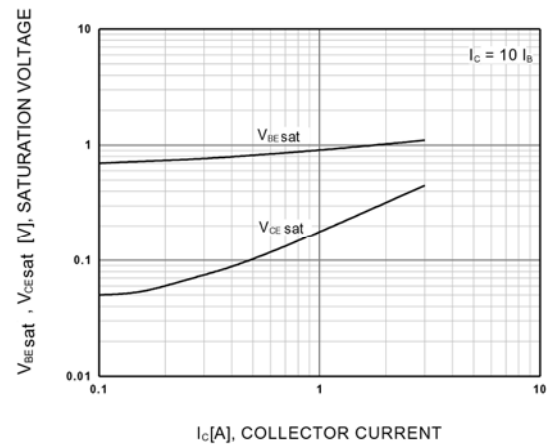
ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	BD233 BD235 BD237	V(BR) _{CBO} I _C = 1mA, I _E =0	45 60 100		V
Collector-emitter breakdown voltage	BD233 BD235 BD237	V(BR) _{CEO} I _C = 100mA, I _B =0	45 60 80		V
Emitter-base breakdown voltage		V(BR) _{EBO} I _E = 1mA, I _C =0	5		V
Collector cut-off current	BD233 BD235 BD237	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)}	V _{CE} = 2V, I _C =150mA	40		
	H _{FE(2)}	V _{CE} =2V, I _C = 1A	25		
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =1A, I _B = 100m A		0.6	V
Transition frequency	f _T	V _{CE} =10V, I _C =250mA f=10MHz	3		MHz

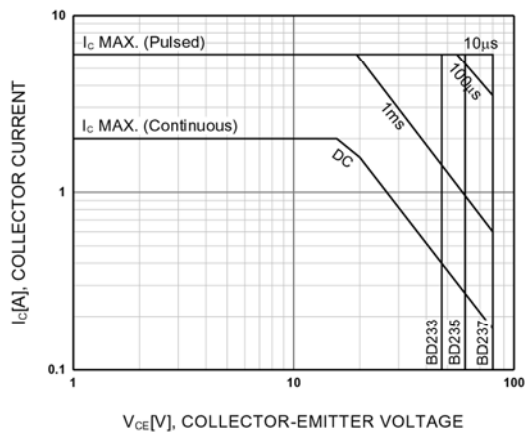
Typical Characteristics



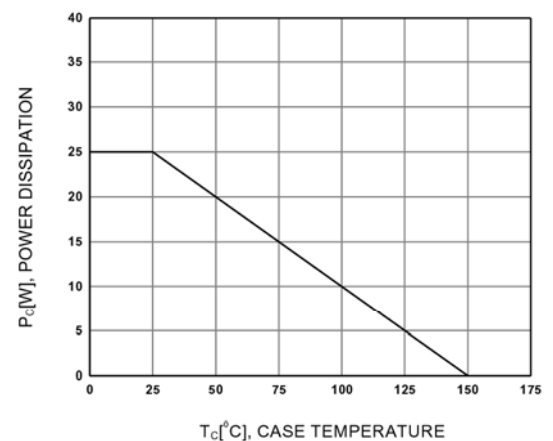
DC current Gain



**Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage**



Safe Operating Area



Power Derating