

Features

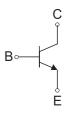
- High Current
- Complement To BD135/BD137/BD139



Package Marking and Ordering Information

Product ID	Pack	Packing Method	Qty(PCS)
BD136/BD138 /BD140	TO-126	Bulk	200





Maximum Ratings (Ta=25°C unless otherwise noted)

Symbol	Parameter		Value	Unit
V _{CBO}	Collector-Base Voltage	BD136 BD138 BD140	-45 -60 -80	V
V _{CEO}	Collector-Emitter Voltage	BD136 BD138 BD140	-45 -60 -80	V
V _{EBO}	Emitter-Base Voltage		-6	V
Ic	Collector Current -Continuous		-1.5	Α
Pc	Collector Dissipation		1	W
T _J , T _{stg}	Operation Junction and Storage Temperature Range		-55~+150	°C



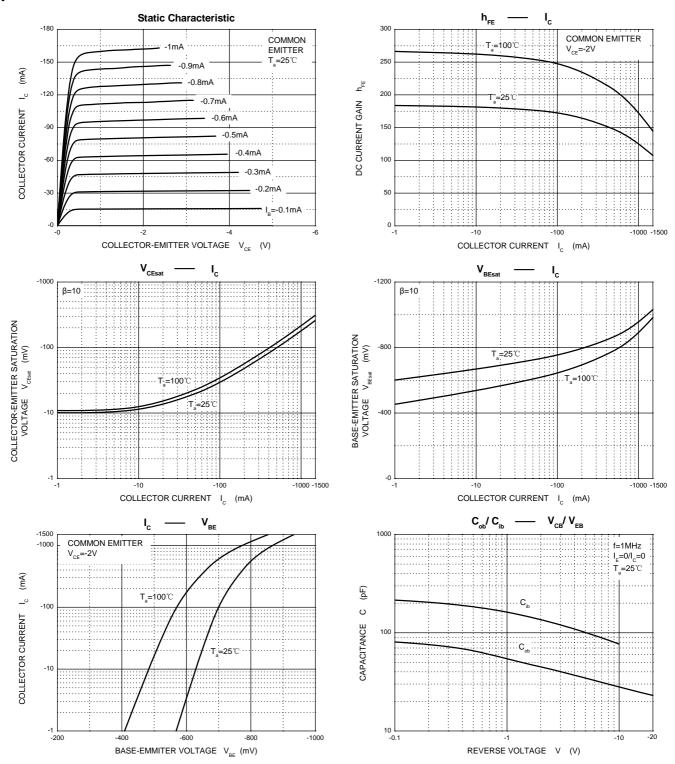
Electrical Characteristics(Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =0.1mA, I _E =0 BD136	-45		V
		BD138 BD140	-60 -80		
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =0.03A, I _B =0 BD136 BD138 BD140	-45 -60 -80		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =1mA, I _C =0	-6		V
Collector cut-off current	I _{CBO}	V _{CB} =100V,I _E =0		-0.1	uA
Collector cut-off current	I _{CEO}	V _{CE} =100V,I _B =0		-0.5	uA
Emitter cut-off current	I _{EBO}	V _{EB} =6V, I _C =0		-0.1	uA
DC current gain	h _{FE1}	V _{CE} =2V, I _C = 0.15A	40	300	
	h _{FE2}	$V_{CE}=2V$, $I_{C}=5$ mA	25		
	h _{FE3}	V _{CE} =2V, I _C = 0.5 A	25		
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =1.5A,I _B =0.15A		0.5	V
Transition frequency	f⊤	V _{CE} =-5V,Ic=-100mA, f =10MHz	50		MHz

Classification Of hee

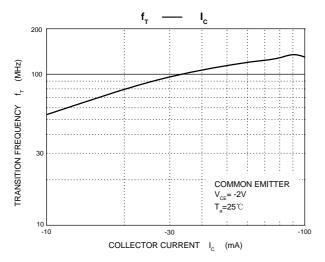
Rank	BD136/BD138/BD140	BD136-10/BD138-10 /BD140-10	BD136-16/BD138-16 /BD140-16
Range	40-100	63-160	100-300

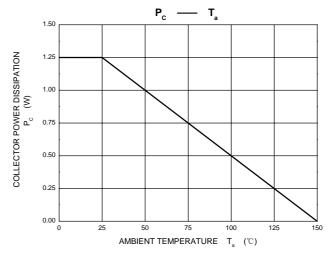
Typical Characteristics



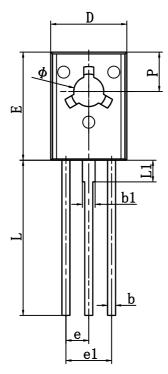


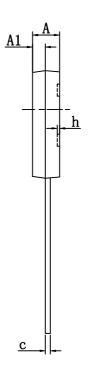
PNP Plastic-Encapsulate Transistors





TO-126 Package Outline Dimensions





Symbol	Dimensions	n Millimeters	Dimensions In Inches		
Syllibol	Min	Max	Min	Max	
Α	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	
С	0.450	0.600	0.018	0.024	
D	7.400	7.800	0.291	0.307	
Е	10.600	11.000	0.417	0.433	
е	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	
Р	3.900	4.100	0.154	0.161	
Ф	3.000	3.200	0.118	0.126	



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