

#### **Features**

• Complement To BD236

# **Package Marking and Ordering Information**

Product ID	Pack	Packing Method	Qty(PCS)
BD235	TO-126	Bulk	200

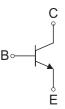
1 .EMITTER

2. COLLECTOR

3.BASE

1

TO-126



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

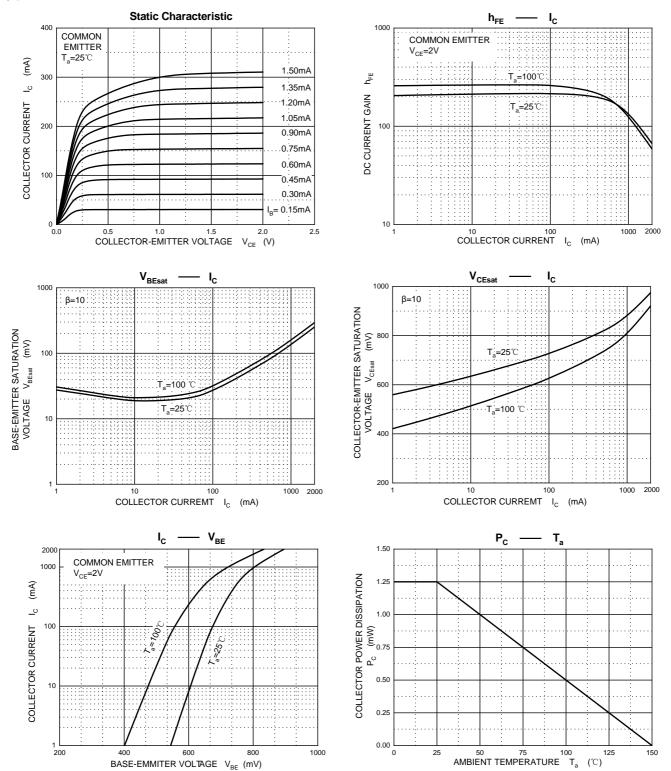
maximum Ratings (Ta-20 0 amess otherwise noted)						
Symbol	ymbol Parameter		Unit			
$V_{CBO}$	Collector-Base Voltage	60	>			
V <sub>CEO</sub>	Collector-Emitter Voltage	60	V			
V <sub>EBO</sub>	Emitter-Base Voltage		V			
Ic	Collector Current -Continuous		Α			
Pc	Collector Dissipation	1	W			
T <sub>J</sub> , T <sub>stg</sub>	Operation Junction and Storage Temperature Range	-55~+150	$^{\circ}$			

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

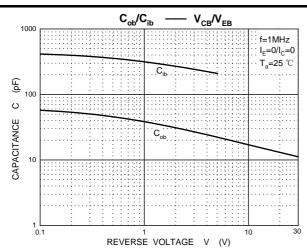
Parameter	symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> =1mA, I <sub>E</sub> =0	60		V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I <sub>C</sub> =1mA, I <sub>B</sub> =0	60		V
Emitter-base breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> =1mA, I <sub>C</sub> =0	6		V
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> =60V,I <sub>E</sub> =0		0.1	uA
Collector cut-off current	I <sub>CEO</sub>	V <sub>CE</sub> =60V,I <sub>B</sub> =0		0.5	uA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> =6V, I <sub>C</sub> =0		0.1	uA
DC current gain	h <sub>FE1</sub>	V <sub>CE</sub> =5V, I <sub>C</sub> = 0.2 A	100	300	
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =2A,I <sub>B</sub> =0.2A		0.5	V
Transition frequency	f⊤	V <sub>CE</sub> =10V,Ic=100mA, f =1MHz	50		MHz



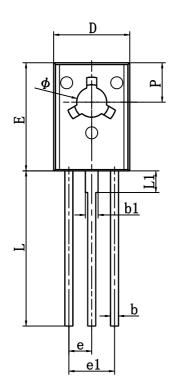
### **Typical Characteristics**

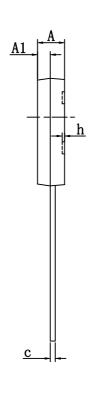






**TO-126 Package Outline Dimensions** 





Cymbol	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	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	
E	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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