PNP Transistor TO-126



Feature:

- PNP Plastic Power Transistors
- · Medium Power Linear and Switching Applications

Absolute Maximum Ratings

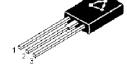
Description	Symbol	-	BD136	Unit
Collector-Base Voltage (Open Emitter)	V _{CBO}		45	V
Collector Emitter Voltage (Open Base)	V _{CEO}		45	
Collector Current	Ι _C	Max.	1.5	А
Total Power Dissipation upto T _C = 25°C	P _{tot}		12.5	W
Junction Temperature	Т _ј		150	°C
Collector-Emitter Saturation Voltage $I_{C} = 0.5A, I_{B} = 0.05A$	V _{CE (Sat)}		0.5	V
DC Current Gain $I_{c} = 0.15A; V_{CE} = 2V$	h _{FE}	Min. Max.	40 250	-

Ratings (at $T_a = 25^{\circ}C$ unless otherwise specified)

Description	Symbol	-	BD136	Unit
Collector-Base Voltage (Open Emitter)	V _{CBO}	Max.	45	
Collector Emitter Voltage (Open Base)	V _{CEO}		45	V
Emitter-Base Voltage (Open Collector)	V _{EBO}		5	
Collector Current	Ι _C		1.5	A
Base Current	I _B		0.5	
Total Power Dissipation up to $T_A = 25^{\circ}C$ Derate above 25°C	P _{tot}		1.25 10	W mW/°C

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Pin Configuration:

1. Emitter

2. Collector

3. Base

Ratings (at $T_a = 25^{\circ}C$ unless otherwise specified)

Description	Symbol	-	BD136	Unit
Total Power Dissipation up to T _C = 25°C Derate above 25°C	P _{tot}	Max.	12.5 100	W mW/°C
Junction Temperature	Τ _j	in and	150	°C
Storage Temperature	T _{stg}	-	-65 to +150	0
Thermal Resistance				
From Junction to Case	R _{th (j-c)}	-	10	°C/W
From Junction to Ambient	R _{th (j-a)}	-	100	

Characteristics ($T_a = 25^{\circ}C$ unless otherwise specified)

Description	Symbol	-	BD136	Unit
Collector Cut off Current $I_E = 0; V_{CB} = 30V$ $I_E = 0; V_{CB} = 30V; T_C = 125^{\circ}C$	I _{сво}	Max.	0.1 10	μA
Emitter Cut off Current $I_{C} = 0; V_{EB} = 5V$	I _{EBO}		10	
Breakdown Voltages $I_C = 0.03A; I_B = 0$ $I_C = 1mA; I_E = 0$ $I_E = 1mA; I_C = 0$	V _{CEO (Sus)} * V _{CBO} V _{EBO}	Min.	45 45 5	
Saturation Voltage $I_{C} = 0.5A$; $I_{B} = 0.05A$	V _{CE (sat)} *	Max.	0.5	V
Base-Emitter On Voltage $I_{c} = 0.5A; V_{CE} = 2V$	V _{BE (on)} *	ividă.	1	
DC Current Gain $I_{c} = 0.15A; V_{CE} = 2V^{**}$	h _{FE} *	Min. Max.	40 250	-

** hFE Classification:

-6	Min.	40
	Max.	100
-10	Min.	63
	Max.	160
-16	Min.	100
	Max.	250
-25	Min.	160
	Max.	400

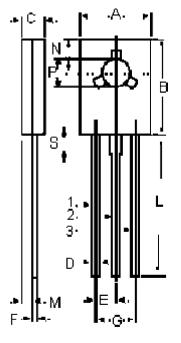
* Pulse Test: Pulse Width = ≤300µs, Duty Cycle ≤2%.

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Dimensions	Min.	Max.	
А	7.4	7.8	
В	10.5	10.8	
С	2.4	2.7	
D	0.7	0.9	
E	2.25 (Typical)		
F	0.49	0.75	
G	4.5 (Typical)		
L	15.7 (Typical)		
М	1.27 (Typical)		
Ν	3.75 (Typical)		
Р	3	3.2	
S	2.5 (Typical)		

Dimensions : Millimetres

Pin Configuration:

- 1. Emitter
- 2. Collector

3. Base

Part Number Table

Description	Part Number	
Transistor, PNP, TO-126	BD136	

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