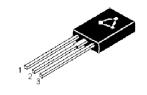
Medium Power Transistor TO-126







Pin Configuration:

- 1. Emitter
- 2. Collector
- 3. Base

Feature:

- Epitaxial Silicon Power Transistors
- Intended for use in Medium Power Linear Switching Applications

Absolute Maximum Ratings

Description	Symbol	BD179	Unit	
Collector-Emitter Voltage	V _{CEO}	00		
Collector-Base Voltage	V _{CBO}	80	V	
Emitter Base Voltage	V EBO	5		
Collector Current	l=	3		
Collector Peak Current	I _{CM}	7	А	
Power Dissipation at T _a = 25°C Derate above 25°C	P _D	1.25 10	W mW/°C	
Power Dissipation at T _C = 25°C		30	W	
Operating and Storage Junction Temperature Range	T _j , T _{stg}	-65 to +150	°C	

Thermal Characteristics

Junction to Ambient in Free Air	R _{th (j-a)}	100	°C/W
Junction to Case	R _{th (j-c)}	4.16	C/VV

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

Description	Symbol	Test Condition	Min.	Max.	Unit
Collector Cut off Current	I _{CBO}	$V_{CB} = 80V, I_{E} = 0$	-		
Emitter Cut off Current	I _{EBO}	V _{EB} = 5V, I _C = 0	-		V
Collector Emitter Sustaining Voltage	*V _{CEO (sus)}	I _C = 100mA, I _B = 0	80		

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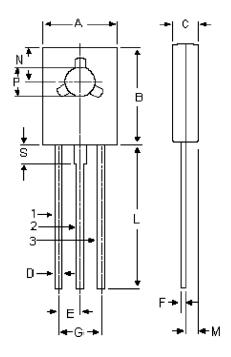
Medium Power Transistor TO-126



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

Description	Symbol	Test Condition	Min.	Max.	Unit
Collector Emitter Saturation Voltage	*V _{CEO (sat)}	$I_{\rm C} = 1$ A, $I_{\rm B} = 0.1$ A	1		Α
Base Emitter On Voltage	*V _{BE (on)}	I _C = 1A, V _{CE} = 2V	ı		
DC Current Gain	*h _{FE} *h _{FE} Group	I_{C} = 150mA, V_{CE} = 2V I_{C} = 1A, V_{CE} = 2V I_{C} = 150mA, V_{CE} = 2V Only BD179	40 15 40 63 100	100 160 250	W mW/°C
Transition Frequency	f _T	I _C = 250mA, V _{CE} = 10V	3	-	

^{*}Pulse Test : Pulse Width = 300µs, Duty Cycle = 1.5%.



Dimensions	Min.	Max.	
Α	7.4	7.8	
В	10.5	10.8	
С	2.4	2.7	
D	0.7	0.9	
Е	2.25 (Typical)		
F	0.49	0.75	
G	4.5 (Typical)		
L	15.7 (Typical)		
M	1.27 (Typical)		
N	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		
Г	Transistor, NPN, TO-126	BD179		

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