19/12/12 V1.0

Medium Power Transistor TO-126



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}	80	
Collector-Base Voltage	V _{CBO}	00	V
Emitter Base Voltage	VEBO	5	
Collector Current	=	3	٨
Collector Peak Current	I _{CM}	7	A
Power Dissipation at T _a = 25°C Derate above 25°C	P _D	1.25 10	W mW/°C
Power Dissipation at $T_{C} = 25^{\circ}C$		30	W
Operating and Storage Junction Temperature Range	T _j , T _{stg}	-65 to +150	°C

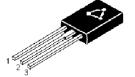
Thermal Characteristics

Junction to Ambient in Free Air	R _{th (j-a)}	100	°C/W	
Junction to Case	R _{th (j-c)}	4.16	0,00	

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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Pin Configuration:

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



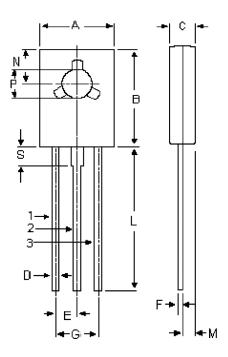




Electrical Characteristics (T_c = 25°C unless specified otherwise)

Description	Symbol	Test Condition	Min.	Max.	Unit
Collector Emitter Saturation Voltage	*V _{CEO (sat)}	I _C = 1A, I _B = 0.1A	-		A
Base Emitter On Voltage	*V _{BE (on)}	I _C = 1A, V _{CE} = 2V	-		A
DC Current Gain	*h _{FE} *h _{FE} Group	$I_{c} = 150$ mA, $V_{cE} = 2V$ $I_{c} = 1A, V_{CE} = 2V$ $I_{c} = 150$ mA, $V_{CE} = 2V$ 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%.



Pin Configuration:

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

Dimensions	Min.	Max.
A	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 (T	ypical)
М	1.27 (Typical)	
N	3.75 (Typical)	
Р	3	3.2
S	2.5 (Typical)	

Dimensions : Millimetres

Part Number Table

Description	Part Number		
Transistor, NPN, TO-126	BD179		

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