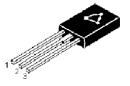
# multicomp PRO





**Pin Configuration:** 

1. Emitter

2. Collector

3. Base

### Feature:

• NPN Plastic Power Darlington Transistor

## **Absolute Maximum Ratings**

Parameter	Symbol	BD679	Unit	
Collector Base Voltage	V <sub>CBO</sub>	80		
Collector Emitter Voltage	V <sub>CEO</sub>	00	V	
Emitter Base Voltage	V <sub>EBO</sub>	5		
Collector Current	Ι <sub>c</sub>	4		
Base Current	I <sub>B</sub>	0.1	A	
Total Power Dissipation at T <sub>a</sub> = 25°C Derate above 25°C		1.25 10	W mW/°C	
Total Power Dissipation at T <sub>C</sub> = 25°C Derate above 25°C	P <sub>D</sub>	40 0.32	W W/°C	
Operating and Storage Junction Temperature Range	T <sub>j</sub> , T <sub>stg</sub>	-55 to +150	°C	
Thermal Resistance				

Junction to Case	R <sub>th (j-c)</sub>	3.13	°C/W
Junction to Ambient in Free Air	R <sub>th (j-a)</sub>	100	0,00

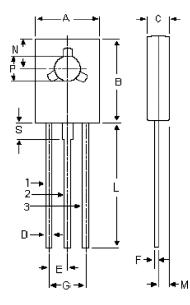
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Parameter	Symbol	Test Condition	Min.	Max.	Unit
Collector Emiiter Voltage	V <sub>CEO</sub> *	I <sub>C</sub> = 50mA, I <sub>B</sub> = 0	80	-	V
Collector Cut off Current	I <sub>сео</sub> I <sub>сво</sub>	$V_{CE}$ = Half Rated $V_{CEO}$ , $I_B$ = 0 $V_{CB}$ = Rated $V_{CBO}$ , $I_E$ = 0	-	500 0.2	μA mA
	I <sub>CBO</sub>	$V_{CB}$ = Rated $V_{CBO}$ , $I_{E}$ = 0 $T_{C}$ = 100°C		2	mA
Emitter Cut off Current	I <sub>EBO</sub>	V <sub>EB</sub> = 5V, I <sub>C</sub> = 0	-	2	mA
Collector Emitter Saturation Voltage	V <sub>CE (sat)</sub> *	I <sub>C</sub> = 1.5A, I <sub>B</sub> = 6mA	-	2.5	V
Base Emitter On Voltage	V <sub>EB (on)</sub> *	I <sub>C</sub> = 1.5A, V <sub>CE</sub> = 3V	-	2.0	V
DC Current Gain	h <sub>FE</sub> *	I <sub>C</sub> = 1.5A, V <sub>CE</sub> = 3V	750	-	-
Small Signal Current Gain	h <sub>fe</sub>	$I_{C} = 1.5A, V_{CE} = 3V$ f = 1MHz	1	-	-

# Electrical Characteristics (T<sub>a</sub> = 25°C unless specified otherwise)

\*Pulse Test : Pulse Width =  $\leq 300 \mu$ s, Duty Cycle =  $\leq 2\%$ .



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 (Typical)	
М	1.27 (Typical)	
Ν	3.75 (Typical)	
Р	3	3.2
S	2.5 (Typical)	

#### **Dimensions : Millimetres**

#### Part Number Table

Description	Part Number	
Darlington Transistor, TO-126	BD679	

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**Pin Configuration:** 

1. Emitter

Collector
Base

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