



# TR BD135-16;CDIL;TO126;tranzystor; NPN;1.5A;45V;12.5W;>50MHz;Pbf



## **Dane techniczne:**

Nazwa: BD135-16

Typ tranzystora: bipolarny

Kierunek przewodnictwa: NPN

Prąd kolektora: 1.5A

Napięcie kolektor-emiter: 45V

Moc: 12.5W

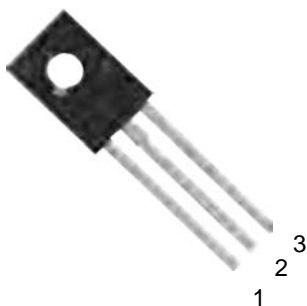
Obudowa: TO126

Częstotliwość: >50MHz

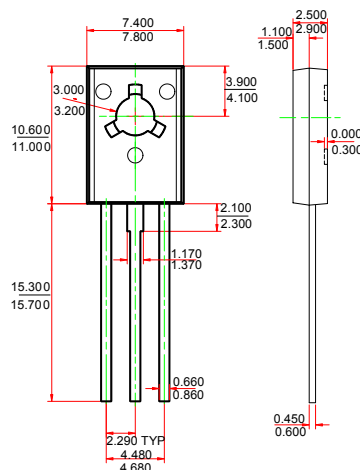
Montaż: przewlekany (THT)

Producent: CDIL

### TO-126



1. EMITTER
2. COLLECTOR
3. BASE



### Features

- ✧ High Current(1.5A)
- ✧ Low Voltage(80V)

### MAXIMUM RATINGS (T<sub>A</sub>=25°C unless otherwise noted )

Dimensions in inches and (millimeters)

Symbol	Parameter	Value			Units
		BD135	BD137	BD139	
V <sub>CB0</sub>	Collector-Base Voltage	45	60	80	V
V <sub>CEO</sub>	Collector-Emitter Voltage	45	60	80	V
V <sub>EBO</sub>	Emitter-Base Voltage	5			V
I <sub>C</sub>	Collector Current -Continuous	1.5			A
P <sub>C</sub>	Collector power dissipation	1.25			W
T <sub>J</sub>	Junction Temperature	150			°C
T <sub>stg</sub>	Storage Temperature	-55-150			°C

### ELECTRICAL CHARACTERISTICS(T<sub>amb</sub>=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> =100μA, I <sub>E</sub> =0	BD135	45		V
			BD137	60		
			BD139	80		
Collector-emitter breakdown voltage	V <sub>(BR)CEO*</sub>	I <sub>C</sub> =30mA, I <sub>B</sub> =0	BD135	45		V
			BD137	60		
			BD139	80		
Emitter-base breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> =100μA, I <sub>C</sub> =0	5			V
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> =30V, I <sub>E</sub> =0			0.1	μA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> =5V, I <sub>C</sub> =0			10	μA
DC current gain	h <sub>FE(1)</sub>	V <sub>CE</sub> =2V, I <sub>C</sub> =5mA	25			
	h <sub>FE(2)</sub>	V <sub>CE</sub> =2V, I <sub>C</sub> =150mA	40		250	
	h <sub>FE(3)</sub>	V <sub>CE</sub> =2V, I <sub>C</sub> =500mA	25			
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =500mA, I <sub>B</sub> =50mA			0.5	V
Base-emitter voltage	V <sub>BE</sub>	V <sub>CE</sub> =2V, I <sub>C</sub> =500mA			1	V

### \*PULSE TEST

### CLASSIFICATION OF h<sub>FE(2)</sub>

Rank	6	10	16
Range	40-100	63-160	100-250

## Typical Characteristics

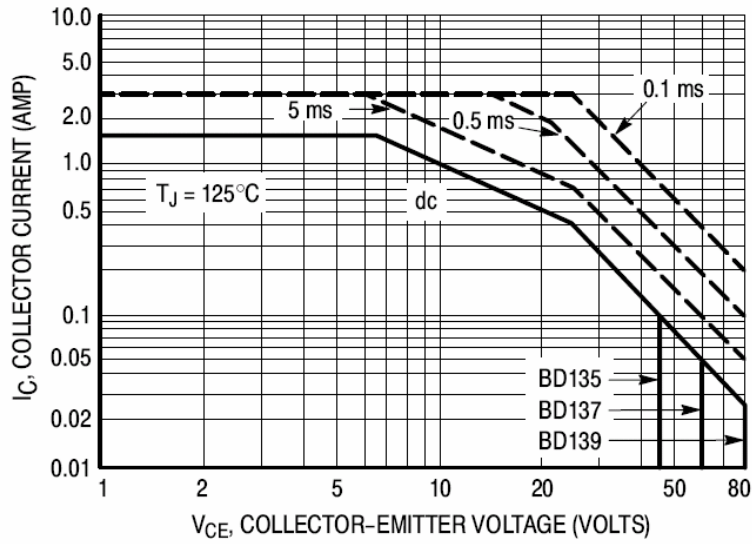


Figure 1. Active-Region Safe Operating Area