



T-33-07

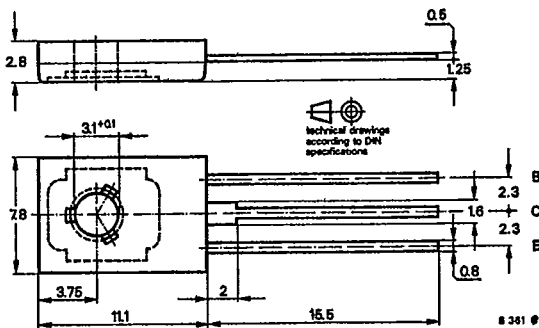
Silicon NPN Planar Power Transistors

Applications: General at high supply voltages

Features:

- High reverse voltage
- Power dissipation 17.5 W

Dimensions in mm



Collector connected with metallic surface

Standard plastic case
 12 A 3 DIN 41 869
 JEDEC TO 126 (SOT 32)
 Weight max. 0.8 g

Accessories

- Isolating washer No. 119880
- Washer 3.2 DIN 125A

Absolute maximum ratings

	BD 127	BD 128	BD 129	
Collector-base voltage	300	350	400	V
Collector-emitter voltage	250	300	350	V
Emitter-base voltage		5		V
Collector current		500		mA
Total power dissipation $T_{case} \leq 45^\circ C$		17.5		W
Junction temperature		150		$^\circ C$
Storage temperature range		-55 ... +150		$^\circ C$
Tightening torque		70		N cm

Maximum thermal resistance

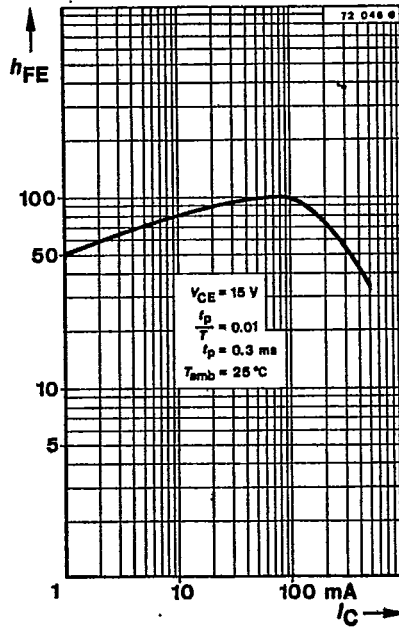
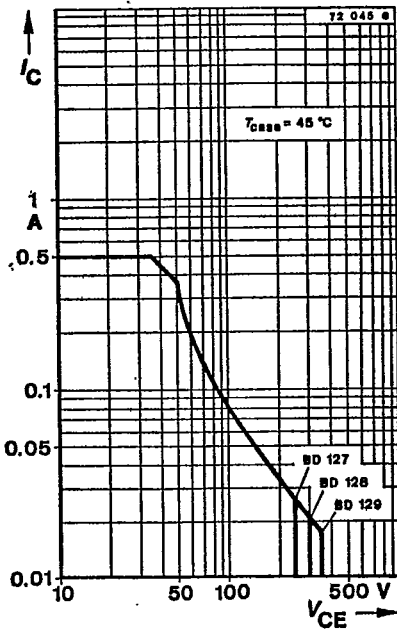
Junction case	R_{thJC}	6	K/W
---------------	------------	---	-----

¹⁾ with screw M3 and washer 3.2 DIN 125A

T1.2/502.0888 E

T-33-07

Characteristics	Min.	Typ.	Max.
$T_{amb} = 25^\circ\text{C}$, unless otherwise specified			
Collector cut-off current			
$V_{CB} = 150\text{ V}$			50 nA
$V_{CB} = 150\text{ V}, T_{amb} = 150^\circ\text{C}$			100 μA
Collector-base breakdown voltage			
$I_C = 1\ \mu\text{A}$			
BD 127	$V_{(BR)CBO}$	300	V
BD 128	$V_{(BR)CBO}$	350	V
BD 129	$V_{(BR)CBO}$	400	V
Collector-emitter breakdown voltage			
$I_C = 1\text{ mA}$			
BD 127	$V_{(BR)CEO}^{1)}$	250	V
BD 128	$V_{(BR)CEO}^{1)}$	300	V
BD 129	$V_{(BR)CEO}^{1)}$	350	V
Emitter-base breakdown voltage			
$I_E = 1\ \mu\text{A}$	$V_{(BR)EBO}$	5	V
DC forward current transfer ratio			
$V_{CE} = 15\text{ V}, I_C = 1\text{ mA}$	h_{FE1}	50	
$V_{CE} = 15\text{ V}, I_C = 50\text{ mA}$	h_{FE}	30	



¹⁾ $\frac{t_p}{T} = 0.01, t_p = 0.3\text{ ms}$

This datasheet has been downloaded from:

www.DatasheetCatalog.com

Datasheets for electronic components.



LittleDiode supplies new, hard to find or obsolete electronic components and semiconductors all over the world.

With over two million different components listed you are sure to find the part you need.

Feel free to visit us today at our online store:

LittleDiode.com

Looking forward to providing you with the best possible service.