TELEFUNKEN electronic

Silicon NPN Planar Power Transistors

T-33-07

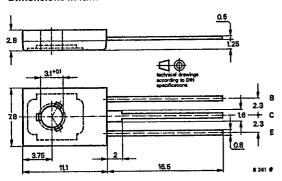
Applications: General at high supply voltages

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 120	
Collector-base voltage	$V_{\scriptscriptstyle{CBO}}$	300	350	400	٧
Collector-emitter voltage	V _{CEO}	250	300	350	٧
Emitter-base voltage	V_{EBO}		5		٧
Collector current	I _C		500		mA
Total power dissipation T _{case} ≤ 45 °C	P _{tot}		17,5		w
Junction temperature	$ au_{\rm i}$		150		oC.
Storage temperature range	$T_{ m stg}$	-	-55+15	0	∘C
Tightening torque	$M_A^{(1)}$		70		N cm
Maximum thermal resistance					
Junction case	R _{thJC}		6	•	K/W

¹⁾ with screw M3 and washer 3.2 DIN 125A

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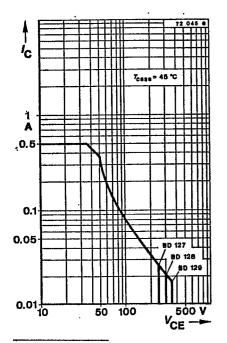
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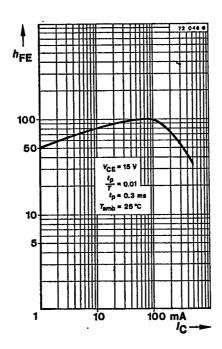
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BD 127 · BD 128 · BD 129

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			Min.	Тур.	Max.	
Characteristics			•••••	.,,,,		
$T_{\rm amb} = 25 ^{\circ}$ C, unless other	wise specified					
Collector cut-off current						
$V_{\rm CR} = 150 \rm V$		I _{CBO}			50	nΑ
$V_{\rm CB} = 150 \text{V}, T_{\rm amb} = 150 \text{C}$	•	I _{CBO}			100	μA
Collector-base breakdown vo	ltage					
/ _C = 1 μA	BD 127	V _{(BR)CBO}	300			٧
	BD 128	V _{(BR)CBO}	350			٧
	BD 129	V _{(BR)CBO}	400			٧
Collector-emitter breakdown	voltage					
I _C =1 mA	BD 127	Vinniaro ¹⁾	250			V
C	BD 128	V _{(BR)CEO} 1) V _{(BR)CEO} 1)	300			٧
	BD 129	V _{(BR)CEO} 1)	350			V
Emitter-base breakdown volta	age					
/ _E = 1 μA		V _{(BR)EBO}	5	•		٧
DC forward current transfer ra	atio					
$V_{CF} = 15 \text{ V}, I_{C} = 1 \text{ mA}$		h _{FE.}		50		
$V_{\rm CE} = 15 \text{ V, } I_{\rm C} = 50 \text{ mA}$		h _{FE} 1)	30			





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 $t_p = 0.01, t_p = 0.3 \text{ ms}$