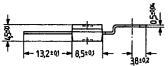
BD 487 BD 488

SIEMENS AKTIENGESELLSCHAF 04373

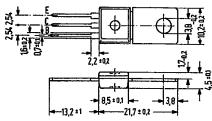
D

BD 487 and BD 488 are epitaxial PNP silicon planar transistors in a plastic package similar to TO 202. The collector is electrically connected to the metallic mounting area. The transistors are particularly designed for switching applications in flash devices.

Туре	Ordering code
BD 487	Q62702-D929
Bd 488	Q62702-D930



Available upon request also with bent fixing plate.



Approx. weight 15 g. Dimensions in mm

Maximum ratings ( $T_{amb} = 25$ °C)
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Collector-emitter voltage
Collector-emitter voltage
Collector-base voltage
Emitter-base voltage
Collector current
Collector peak current (t ≤ 10 ms)
Emitter peak current
Base current
Base peak current
Junction temperature
Storage temperature range
Total power dissipation ( $T_{case} = 25$ °C)

## Thermal resistance

Junction to ambient air Junction to mounting area

	BD 487	BD 488	
-V <sub>CEO</sub> -V <sub>CES</sub> -V <sub>CBO</sub> -V <sub>EBO</sub> -I <sub>C</sub> -I <sub>CM</sub> I <sub>EM</sub>	25	45	V
-V <sub>CES</sub>	30	45	>>> A A A A © ©
-V <sub>CBO</sub>	30	45	V
-V <sub>EBO</sub>	5	5	l v
$-I_{\mathbf{C}}$	12	12	Α
$-I_{CM}$	15	15	Α
$I_{EM}$	15	15 ·	Α
/B	2 5	2 5	A
$I_{RM}$	5	5	Α .
T <sub>j</sub> T <sub>stg</sub> P <sub>tot</sub>	150	150	°C
T <sub>sta</sub>	~55 to +150		°C
P <sub>tot</sub>	12,5	12,5	w
			•

R <sub>thJA</sub>	≤65	≦65	K/W
R <sub>thJC</sub>	≤10	≤10	

1796 B-13

419

7-33-/9 вр 487 вр 488

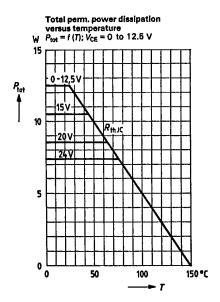
## \_SIEMENS AKTIENGESELLSCHAF \_

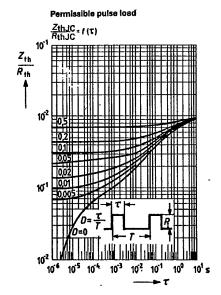
Static characteristics ( $T_{amb} = 25$ °C)		BD 487	BD 488	1
Collector cutoff current	<u>-</u>			
$(-V_{CE} = 30 \text{ V})$	-I <sub>CES</sub>	≤1	≤1	μΑ
Collector cutoff current	_			
$(-V_{CE} = 30 \text{ V}; T_{amb} = 125 ^{\circ}\text{C})$	-I <sub>CES</sub>	≦100	≤100	μA
DC current gain				-
$(-I_C = 12 \text{ A}; -V_{CE} = 0.7 \text{ V})$	h <sub>FE</sub>	≥25	≥25	-
Base-emitter forward voltage			\ \ <u>`</u>	1
$(-I_C = 12 \text{ A}; -V_{CE} = 0.7 \text{ V})$	$-V_{BE}$	<1.7	<1.7	V
DC current gain		000	000	
$(-I_C = 0.1 \text{ A}; -V_{CE} = 0.7 \text{ V})$	h <sub>FE</sub>	200	200	-
Collector-emitter forward voltage	17	.0.0		١
$(-I_{\rm C} = 0.1 \text{ A}; -V_{\rm CE} = 0.7 \text{ V})$	−V <sub>CE</sub>	<0.8	<0.8	V

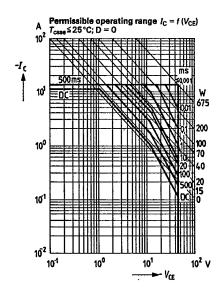
## Dynamic characteristics ( $T_{amb} = 25$ °C)

fr	≥50	≥50	MHz
•			l • · · · ·
C <sub>CB</sub>	130	130	рF
	ł		
ton	<0.5	<0.5	μς
toff	<2	<2	μs
	f <sub>T</sub> C <sub>CB</sub> t <sub>on</sub> t <sub>off</sub>	C <sub>CB</sub> 130	C <sub>CB</sub> 130 130 t <sub>on</sub> <0.5 <0.5

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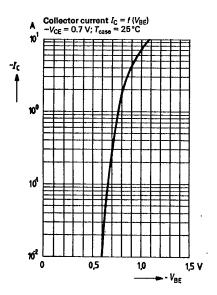


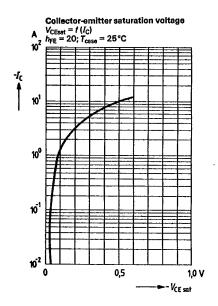
1798 C-01

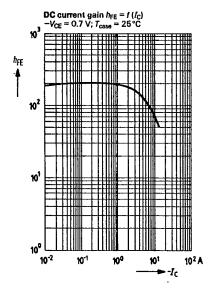
T-33-19

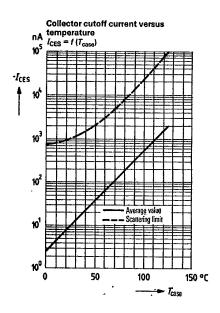
BD 487 BD 488

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C-02