

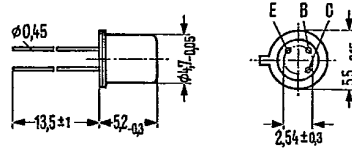
PNP Silicon Planar Transistors

2 N 2906 A
2 N 2907 A

SIEMENS AKTIENGESELLSCHAFT T-37-17

2 N 2906 A and 2 N 2907 A are epitaxial PNP silicon planar transistors in TO 18 case (18 A 3 DIN 41876). The collector is electrically connected to the case. The transistors are particularly suitable for use as high-speed switches.

Type	Ordering code
2 N 2906 A	Q62702-F408
2 N 2907 A	Q62702-S170



Approx. weight 0.3 g Dimensions in mm

Maximum ratings

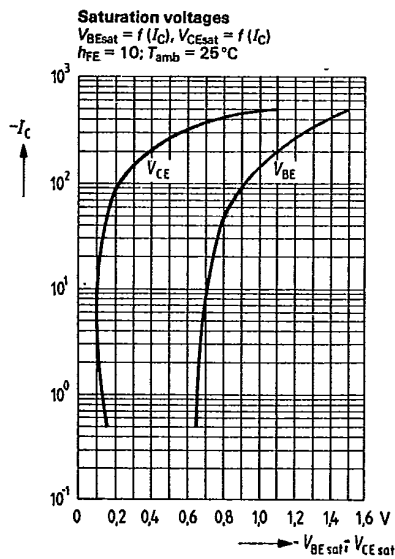
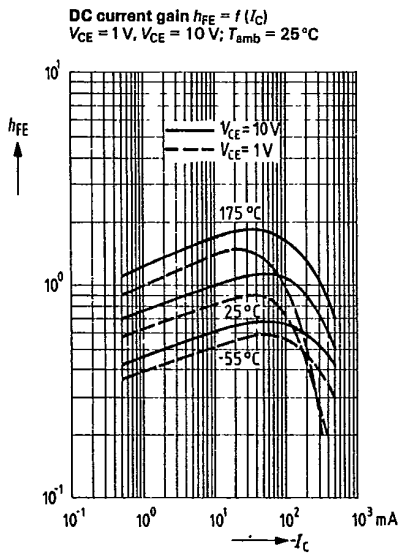
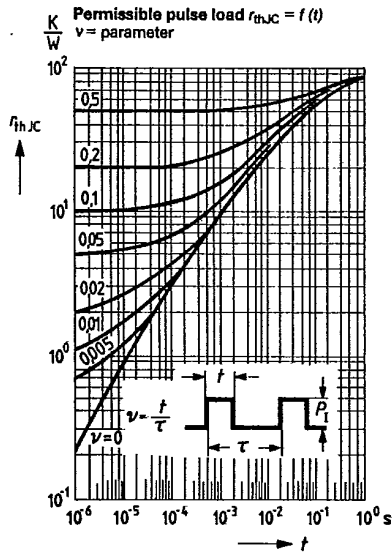
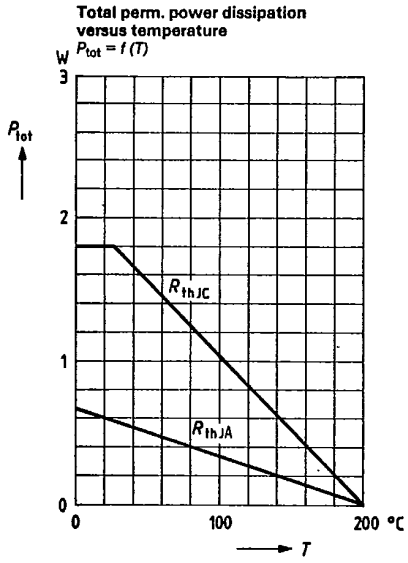
	2 N 2906 A 2 N 2907 A	
Collector-emitter voltage	-V _{CEO} 60	V
Collector-base voltage	-V _{CBO} 60	V
Emitter-base voltage	-V _{EBO} 5	V
Collector current	-I _C 0.6	A
Junction temperature	T _j 200	°C
Storage temperature range	T _{stg} -65 to +200	°C
Total power dissipation (T _{amb} = 25 °C)	P _{tot} 0.4	W
Total power dissipation (T _{case} = 25 °C)	P _{tot} 1.8	W

Thermal resistance

Junction to ambient air	R _{thJA} < 438	K/W
Junction to case	R _{thJC} < 97	K/W

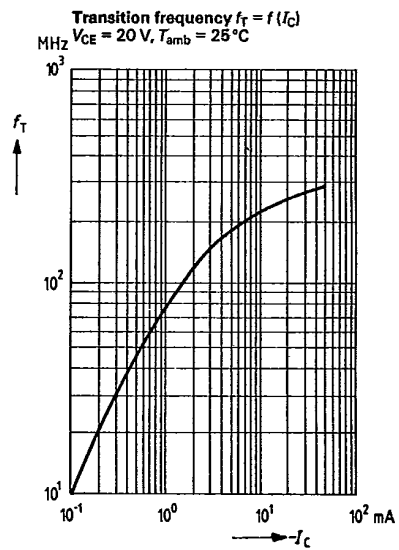
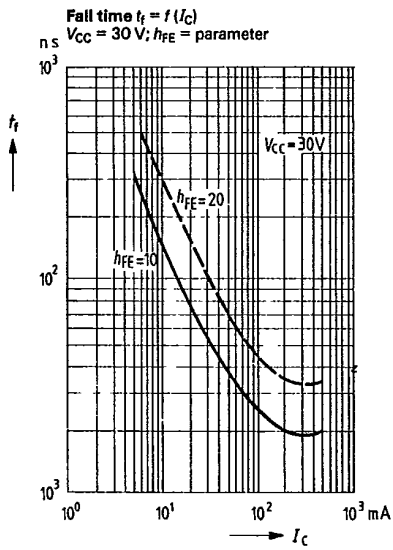
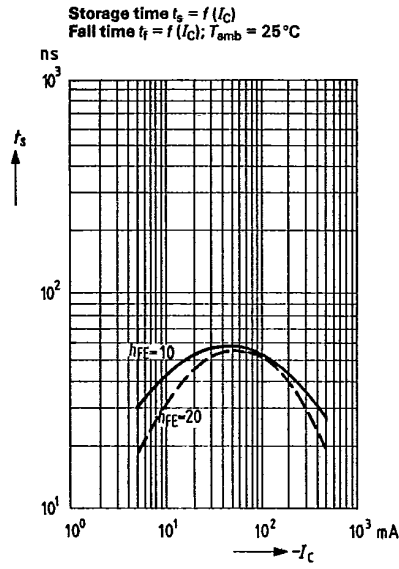
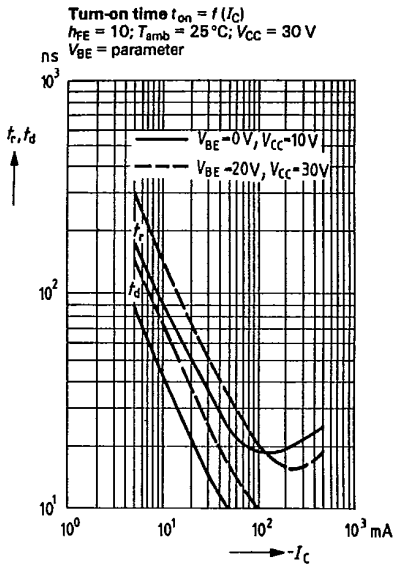
Static characteristics ($T_{amb} = 25\text{ }^{\circ}\text{C}$)		2 N 2906 A	2 N 2907 A	
Collector-base breakdown voltage ($-I_C = 10\text{ }\mu\text{A}$)	$-V_{(BR)CBO}$	> 60	> 60	V
Collector-emitter breakdown voltage ($-I_C = 10\text{ mA}$)	$-V_{(BR)CEO}$	> 60	> 60	V
Emitter-base breakdown voltage ($-I_E = 10\text{ }\mu\text{A}$)	$-V_{(BR)EBO}$	> 5	> 5	V
Collector-emitter saturation voltage ($-I_B = 15\text{ mA}; -I_C = 150\text{ mA}$)	$-V_{CEsat}$	< 0.4	< 0.4	V
($-I_B = 50\text{ mA}; -I_C = 500\text{ mA}$)	$-V_{CEsat}$	< 1.6	< 1.6	V
Base-emitter saturation voltage ($-I_C = 150\text{ mA}; -I_B = 15\text{ mA}$)	$-V_{BEsat}$	< 1.3	< 1.3	V
($-I_C = 500\text{ mA}; -I_B = 50\text{ mA}$)	$-V_{BEsat}$	< 2.6	< 2.6	V
Collector cutoff current ($-V_{CB} = 50\text{ V}$)	$-I_{CBO}$	< 10	< 10	nA
($-V_{CB} = 50\text{ V}; T_{amb} = 150\text{ }^{\circ}\text{C}$)	$-I_{CBO}$	< 10	< 10	μA
DC current gain ($-V_{CE} = 10\text{ V}; -I_C = 100\text{ }\mu\text{A}$)	h_{FE}	> 40	> 75	-
($-V_{CE} = 10\text{ V}; -I_C = 1\text{ mA}$)	h_{FE}	> 40	> 100	-
($-V_{CE} = 10\text{ V}; -I_C = 10\text{ mA}$)	h_{FE}	> 40	> 100	-
($-V_{CE} = 10\text{ V}; -I_C = 150\text{ mA}$)	h_{FE}	40 to 120	100 to 300	-
($-V_{CE} = 10\text{ V}; -I_C = 500\text{ mA}$)	h_{FE}	> 40	> 50	-
Dynamic characteristics ($T_{amb} = 25\text{ }^{\circ}\text{C}$)				
Collector-base capacitance ($-V_{CB} = 10\text{ V}; f = 100\text{ kHz}$)	C_{CBO}	< 8	< 8	pF
Transition frequency ($-V_{CE} = 20\text{ V}; -I_C = 50\text{ mA}; f = 100\text{ MHz}$)	f_T	> 200	> 200	MHz
Switching times:				
($-V_{CC} = 30\text{ V}; -I_C = 150\text{ mA};$ I_{B1} approx. $-I_{B2}$ approx. 15 mA)				
Delay time	t_d	< 10	< 10	ns
Rise time	t_r	< 40	< 40	ns
Storage time	t_s	< 80	< 80	ns
Fall time	t_f	< 30	< 30	ns

2 N 2906
 2 N 2907
 2 N 2906 A
 2 N 2907 A



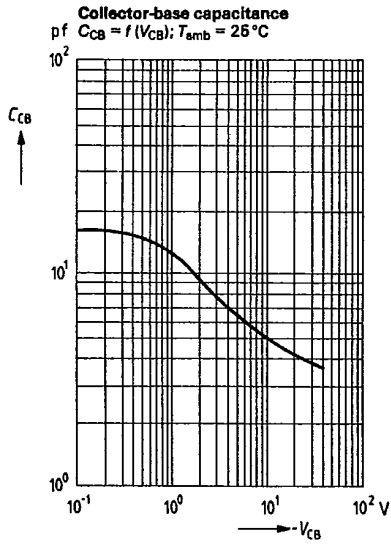
2 N 2906
 2 N 2907
 2 N 2906 A
 2 N 2907 A

SIEMENS AKTIENGESELLSCHAFT



2 N 2906
2 N 2907
2 N 2906 A
2 N 2907 A

SIEMENS AKTIENGESELLSCHAFT





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.