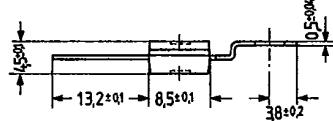
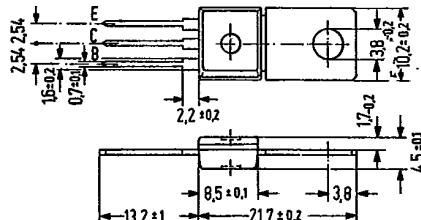


BD 429 is an epitaxial NPN silicon planar transistor in a plastic package similar to TO 202. Together with its complementary transistor BD 430 it is particularly suitable for use in complementary output stages of medium performance (e.g. car radios).

Type	Ordering code
BD 429	Q62702-D1069



Available upon request also with bent fixing plate.



Approx. weight 15 g. Dimensions in mm

Maximum ratings

Collector-emitter voltage	V_{CES}	32	V
Collector-emitter voltage	V_{CEO}	20	V
Emitter-base voltage	V_{EBO}	5	V
Collector current	I_C	3	A
Emitter current	I_E	3	A
Base current	I_B	1	A
Junction temperature	T_J	150	°C
Storage temperature range	T_{stg}	-55 to +150	°C
Total power dissipation ($T_{case} = 25^\circ\text{C}$)	P_{tot}	10	W
($T_{amb} = 25^\circ\text{C}$)	P_{tot}	2	W

Thermal resistance

Junction to ambient air	R_{thJA}	$\leq 62,5$	K/W
Junction to mounting area	R_{thJC}	$\leq 12,5$	K/W

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Static characteristics ($T_{amb} = 25^\circ C$)

Collector-emitter saturation voltage

 $(I_C = 2 A; I_B = 200 \text{ mA})$

Collector cutoff current

 $(V_{CB} = 32 \text{ V})$

Collector cutoff current

 $(V_{CB} = 32 \text{ V}; T_j = 150^\circ C)$

Emitter cutoff current

 $(V_{EB} = 5 \text{ V})$

Base-emitter voltage

 $(V_{CE} = 10 \text{ V}; I_C = 5 \text{ mA})$ $(V_{CE} = 1 \text{ V}; I_C = 2 \text{ A})$

DC current gain

 $V_{CE} = 10 \text{ V}; I_C = 5 \text{ mA}$ $V_{CE} = 1 \text{ V}; I_C = 0.5 \text{ A}$ $V_{CE} = 1 \text{ V}; I_C = 2 \text{ A}$

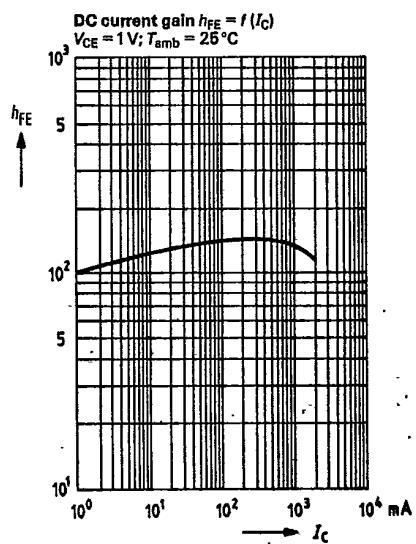
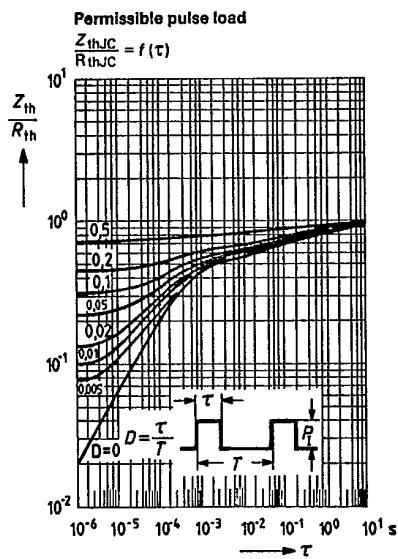
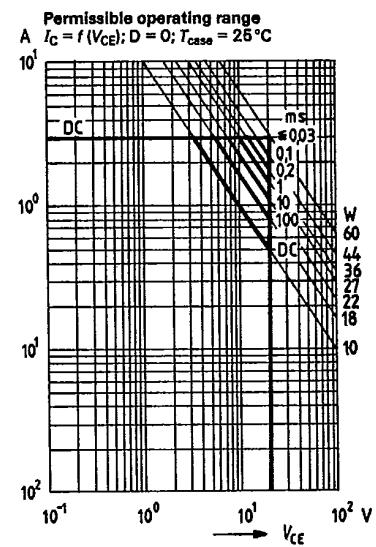
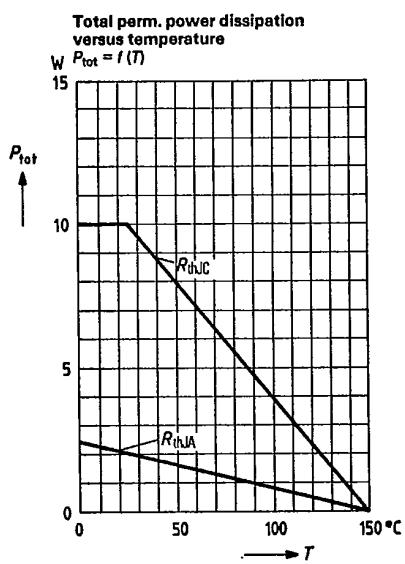
V_{CEsat}	≤ 0.5	V
I_{CBO}	≤ 10	μA
I_{CBO}	≤ 1	mA
I_{EBO}	≤ 10	μA
V_{BE}	0.6	V
V_{BE}	≤ 1.2	V
h_{FE}	>50	-
h_{FE}	85 to 375	-
h_{FE}	>40	-

Dynamic characteristics ($T_{amb} = 25^\circ C$)

Transition frequency

 $(V_{CE} = 5 \text{ V}; I_C = 50 \text{ mA})$ f_T | 130 | MHz

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