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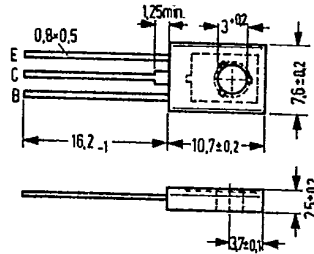
NPN Silicon Planar Transistor

BD 329

SIEMENS AKTIENGESELLSCHAFT 25C 04346 D T-33-07

BD 329 is an epitaxial NPN silicon planar transistor in TO 126 plastic package (12 A 3 DIN 41 869, sheet 4). Together with its complementary transistor BD 330 it is particularly suitable for use in complementary output stages of medium performance (e.g. car radios).

Type	Ordering code
BD 329	Q62702-D394
BD 329/BD 330 paired	Q62702-D401
Spring washer A 3 DIN 137	Q62902-B63



Approx. weight 0.5 g Dimensions in mm
 Transistor fixing with M3 screw
 Starting torque max. 0.8 Nm
 Washer or spring washer should be used.

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 ($T_{amb} = 25^\circ\text{C}$)	P_{tot}	15	W

Thermal resistance

Junction to ambient air	R_{thJU}	≤ 100	K/W
Junction to mounting area	R_{thJC}	≤ 7	K/W

392

1769

G-14

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

Collector-emitter saturation voltage

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

Collector cutoff current

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

Collector cutoff current

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

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

$V_{CE} = 10\text{ V}; I_C = 5\text{ mA}$

$V_{CE} = 1\text{ V}; I_C = 0.5\text{ A}$

$V_{CE} = 1\text{ V}; I_C = 2\text{ A}$

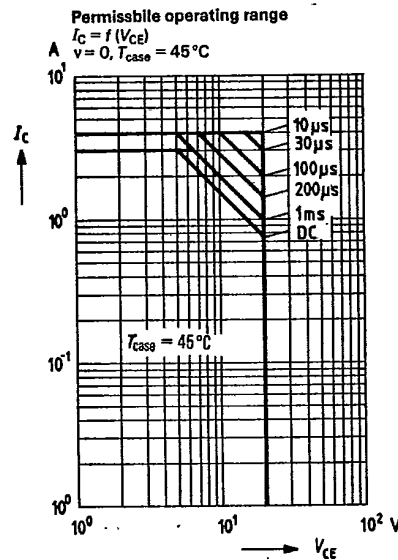
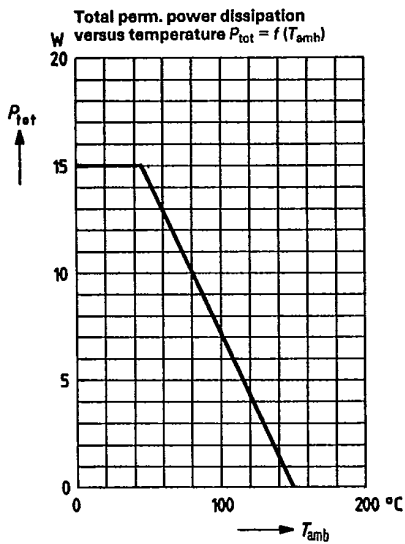
V_{CEsat}	≤ 0.5	V
I_{CBO}	≤ 10	μA
I_{CBO}	≤ 1	mA
I_{EBO}	≤ 10	μA
V_{BE}	0.6	V
V_{BE}	≤ 1.2	V
h_{FE}	> 50	—
h_{FE}	85 to 375	—
h_{FE}	> 40	—

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

Transition frequency

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

f_T	130	MHz
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