

25C D ■ 8235605 0004352 T ■ SIEG

**NPN Silicon Planar Transistor**

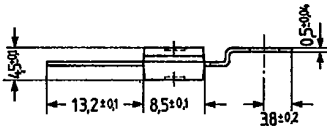
**BD 424**

*T-33-05*

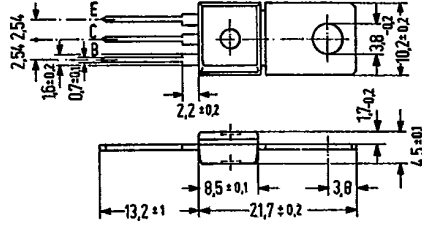
SIEMENS AKTIENGESELLSCHAFT 25C 04352 D

BD 424 is an epitaxial NPN silicon planar transistor in a plastic package similar to TO 202. It is particularly intended for use as driver transistor in horizontal deflection stages of TV sets as well as for universal applications at higher reverse voltages.

Type	Ordering code
BD 424	Q62702-D1068



Available upon request also with bent down fixing plate.



Approx. weight 15 g      Dimensions in mm

**Maximum ratings ( $T_U = 25^\circ\text{C}$ )**

- Collector-emitter voltage
- Collector-emitter voltage
- Emitter-base voltage
- Collector current
- Collector peak current
- Base current
- Junction temperature
- Storage temperature range
- Total power dissipation ( $T_{\text{case}} \leq 100^\circ\text{C}$ )

$V_{\text{CEO}}$	100	V
$V_{\text{CES}}$	160	V
$V_{\text{EBO}}$	5	V
$I_{\text{C}}$	0.8	A
$I_{\text{CM}}$	1	A
$I_{\text{B}}$	100	mA
$T_{\text{J}}$	150	$^\circ\text{C}$
$T_{\text{stg}}$	-55 to +125	$^\circ\text{C}$
$P_{\text{tot}}$	2.5	W

**Thermal resistance**

Junction to ambient air	$R_{\text{thJA}}$	<70	K/W
Junction to case	$R_{\text{thJC}}$	<20	K/W

398

1 775

A-06

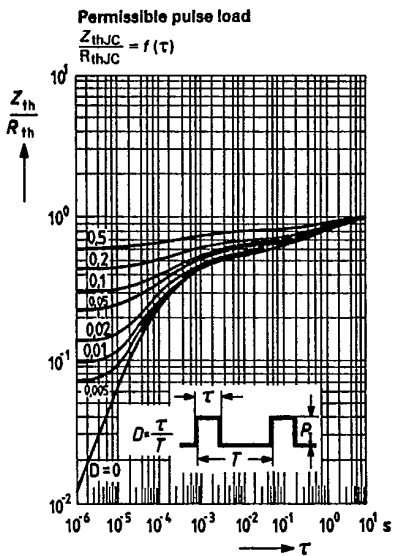
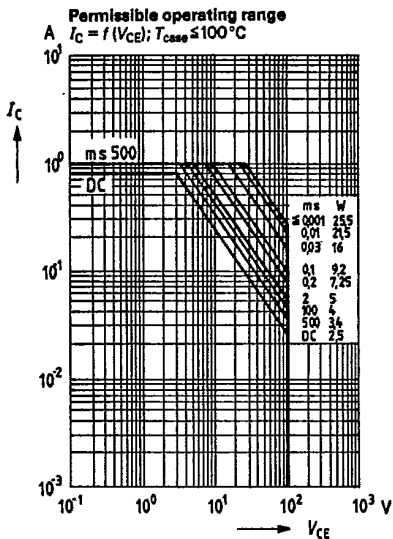
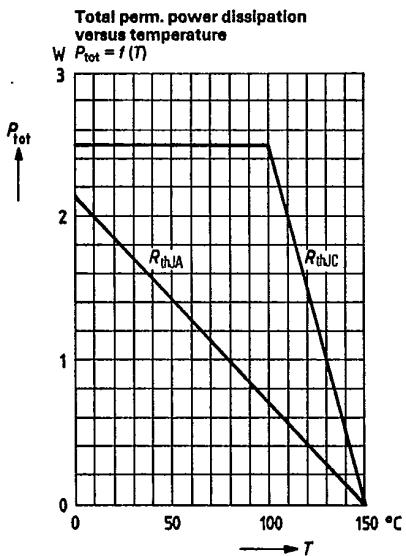
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Static characteristics ( $T_{amb} = 25^{\circ}\text{C}$ )

Collector cutoff current ( $V_{CB} = 140\text{ V}$ )	$I_{CBO}$	<100	nA
Collector cutoff current ( $V_{CB} = 140\text{ V}; T_{amb} = 125^{\circ}\text{C}$ )	$I_{CBO}$	<10	$\mu\text{A}$
Emitter cutoff current ( $V_{EB} = 5\text{ V}$ )	$I_{EBO}$	<10	$\mu\text{A}$
Collector-emitter breakdown voltage ( $I_C = 50\text{ mA}$ )	$V_{(BR)CEO}$	>100	V
Collector-emitter breakdown voltage ( $I_C = 100\text{ }\mu\text{A}$ )	$V_{(BR)CES}$	>160	V
Emitter-base breakdown voltage ( $I_E = 1\text{ }\mu\text{A}$ )	$V_{(BR)EBO}$	>5	V
DC current gain ( $I_C = 100\text{ mA}; V_{CE} = 1\text{ V}$ )	$h_{FE}$	>40	-
( $I_C = 200\text{ mA}; V_{CE} = 1\text{ V}$ )	$h_{FE}$	>20	-
Base-emitter forward voltage ( $I_C = 200\text{ mA}; V_{CE} = 1\text{ V}$ )	$V_{BE}$	<1.3	V
Collector-emitter saturation voltage ( $I_C = 300\text{ mA}; I_B = 30\text{ mA}$ )	$V_{CEsat}$	<1	V
Base-emitter saturation voltage ( $I_C = 300\text{ mA}; I_B = 30\text{ mA}$ )	$V_{BEsat}$	<1.4	V

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

Transition frequency ( $I_C = 10\text{ mA}; V_{CE} = 5\text{ V}; f = 20\text{ MHz}$ )	$f_T$	100	MHz
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