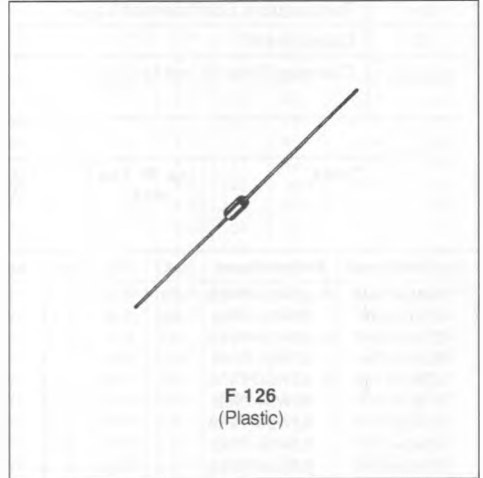




## UNI-AND BIDIRECTIONAL TRANSIENT VOLTAGE SUPPRESSORS

- HIGH SURGE CAPABILITY :  
400 W / 1 ms EXPO
- VERY FAST CLAMPING TIME :  
1 ps FOR UNIDIRECTIONAL TYPES  
5 ns FOR BIDIRECTIONAL TYPES
- LARGE VOLTAGE RANGE :  
5.8 V → 376 V
- ORDER CODE :  
TYPE NUMBER FOR UNIDIRECTIONAL  
TYPES, TYPE NUMBER + SUFFIX B FOR  
BIDIRECTIONAL TYPES



### DESCRIPTION

Transient voltage suppressor diodes especially useful in protecting integrated circuits, MOS, hybrids and other voltage-sensitive semiconductors and components.

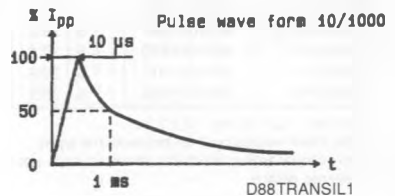
### ABSOLUTE MAXIMUM RATINGS (limiting values)

| Symbol             | Parameter  |                                      | Value              | Unit     |
|--------------------|--|--------------------------------------|--------------------|----------|
| $P_p$              | Peak Pulse Power for 1 ms Exponential Pulse                          | $T_j$ Initial = 25 °C<br>See note 1  | 400                | W        |
| $P$                | Power Dissipation on Infinite Heatsink                               | $T_{amb} = 50$ °C                    | 1.7                | W        |
| $I_{FSM}$          | Non Repetitive Surge Peak Forward Current for Unidirectional Types   | $T_j$ Initial = 25 °C<br>$t = 10$ ms | 50                 | A        |
| $T_{stg}$<br>$T_j$ | Storage and Operating Junction Temperature Range                     |                                      | - 55 to 150<br>150 | °C<br>°C |
| $T_L$              | Maximum Lead Temperature for Soldering During 10 s at 4 mm from Case |                                      | 230                | °C       |

### THERMAL RESISTANCE

| Symbol        | Parameter  | Value | Unit |
|---------------|--|-------|------|
| $R_{th(j-l)}$ | Junction-leads on Infinite Heatsink for $L_{lead} = 10$ mm | 60    | °C/W |

Note : 1. For surges upper than the maximum values, the diode will present a short-circuit anode-cathode.



ELECTRICAL CHARACTERISTICS (T<sub>j</sub> = 25 °C)

| Symbol                | Parameter                                    | Value                |           |
|-----------------------|--|----------------------|-----------|
| V <sub>RM</sub>       | Stand-off Voltage                            | See tables           |           |
| V <sub>(BR)</sub>     | Breakdown Voltage                            |                      |           |
| V <sub>(CL)</sub>     | Clamping Voltage                             |                      |           |
| I <sub>pp</sub>       | Peak Pulse Current                           |                      |           |
| α <sub>T</sub>        | Temperature Coefficient of V <sub>(BR)</sub> |                      |           |
| C                     | Capacitance                                  |                      |           |
| t <sub>clamping</sub> | Clamping Time (0 volt to V <sub>(BR)</sub> ) | Unidirectional Types | 1 ps max. |
|                       |  | Bidirectional Types  | 5 ns max. |

| Types          |               | I <sub>RM</sub> @ V <sub>RM</sub> max. |      | V <sub>(BR)</sub> * @ I <sub>R</sub> |      |       | V <sub>(CL)</sub> @ I <sub>pp</sub> max. |      | V <sub>(CL)</sub> @ I <sub>pp</sub> max. |      | α <sub>T</sub> max. | C** typ. V <sub>R</sub> =0 f=1MHz |      |
|----------------|---------------|--|------|--------------------------------------|------|-------|--|------|--|------|---------------------|-----------------------------------|------|
| Unidirectional | Bidirectional | (μA)                                   | (V)  | min.                                 | nom. | max.  | (mA)                                     | (V)  | (A)                                      | (V)  | (A)                 | (10 <sup>-4</sup> /°C)            | (pF) |
|                |               |  |      |                                      |      |       | 1ms expo                                 |      | 8-20μs expo                              |      |                     |                                   |      |
| P BZW04P5V8    | P BZW04P5V8B  | 1000                                   | 5.8  | 6.45                                 | 6.8  | 7.48  | 10                                       | 10.5 | 38                                       | 13.4 | 17.4                | 5.7                               | 3500 |
| BZW04-5V8      | BZW04-5V8B    | 1000                                   | 5.8  | 6.45                                 | 6.8  | 7.14  | 10                                       | 10.5 | 38                                       | 13.4 | 17.4                | 5.7                               | 3500 |
| BZW04P6V4      | P BZW04P6V4B  | 500                                    | 6.4  | 7.13                                 | 7.5  | 8.25  | 10                                       | 11.3 | 35.4                                     | 14.5 | 16.0                | 6.1                               | 3100 |
| BZW04-6V4      | BZW04-6V4B    | 500                                    | 6.4  | 7.13                                 | 7.5  | 7.88  | 10                                       | 11.3 | 35.4                                     | 14.5 | 16.0                | 6.1                               | 3100 |
| BZW04P7V0      | P BZW04P7V0B  | 200                                    | 7.02 | 7.79                                 | 8.2  | 9.02  | 10                                       | 12.1 | 33                                       | 15.5 | 14.8                | 6.5                               | 2700 |
| BZW04-7V0      | BZW04-7V0B    | 200                                    | 7.02 | 7.79                                 | 8.2  | 8.61  | 10                                       | 12.1 | 33                                       | 15.5 | 14.8                | 6.5                               | 2700 |
| BZW04P7V8      | BZW04P7V8B    | 50                                     | 7.78 | 8.65                                 | 9.1  | 10.0  | 1  | 13.4 | 30                                       | 17.1 | 13.4                | 6.8                               | 2300 |
| BZW04-7V8      | BZW04-7V8B    | 50                                     | 7.78 | 8.65                                 | 9.1  | 9.55  | 1  | 13.4 | 30                                       | 17.1 | 13.4                | 6.8                               | 2300 |
| BZW04P8V5      | BZW04P8V5B    | 10                                     | 8.55 | 9.50                                 | 10   | 11.0  | 1  | 14.5 | 27.6                                     | 18.6 | 25.8                | 7.3                               | 2000 |
| BZW04-8V5      | BZW04-8V5B    | 10                                     | 8.55 | 9.50                                 | 10   | 10.50 | 1  | 14.5 | 27.6                                     | 18.6 | 25.8                | 7.3                               | 2000 |
| P BZW04P9V4    | P BZW04P9V4B  | 5                                      | 9.4  | 10.5                                 | 11   | 12.1  | 1  | 15.6 | 25.7                                     | 20.3 | 23.6                | 7.5                               | 1750 |
| BZW04-9V4      | BZW04-9V4B    | 5                                      | 9.4  | 10.5                                 | 11   | 11.6  | 1  | 15.6 | 25.7                                     | 20.3 | 23.6                | 7.5                               | 1750 |
| BZW04P10       | BZW04P10B     | 5                                      | 10.2 | 11.4                                 | 12   | 13.2  | 1  | 16.7 | 24                                       | 21.7 | 22.1                | 7.8                               | 1550 |
| BZW04-10       | BZW04-10B     | 5                                      | 10.2 | 11.4                                 | 12   | 12.6  | 1  | 16.7 | 24                                       | 21.7 | 22.1                | 7.8                               | 1550 |
| P BZW04P11     | P BZW04P11B   | 5                                      | 11.1 | 12.4                                 | 13   | 14.3  | 1  | 18.2 | 22                                       | 23.6 | 20.3                | 8.1                               | 1450 |
| BZW04-11       | BZW04-11B     | 5                                      | 11.1 | 12.4                                 | 13   | 13.7  | 1  | 18.2 | 22                                       | 23.6 | 20.3                | 8.1                               | 1450 |
| P BZW04P13     | P BZW04P13B   | 5                                      | 12.8 | 14.3                                 | 15   | 16.5  | 1  | 21.2 | 19                                       | 27.2 | 17.6                | 8.4                               | 1200 |
| BZW04-13       | BZW04-13B     | 5                                      | 12.8 | 14.3                                 | 15   | 15.8  | 1  | 21.2 | 19                                       | 27.2 | 17.6                | 8.4                               | 1200 |
| P BZW04P14     | P BZW04P14B   | 5                                      | 13.6 | 15.2                                 | 16   | 17.6  | 1  | 22.5 | 17.8                                     | 28.9 | 16.6                | 8.6                               | 1100 |
| BZW04-14       | BZW04-14B     | 5                                      | 13.6 | 15.2                                 | 16   | 16.8  | 1  | 22.5 | 17.8                                     | 28.9 | 16.6                | 8.6                               | 1100 |
| P BZW04P15     | P BZW04P15B   | 5                                      | 15.3 | 17.1                                 | 18   | 19.8  | 1  | 25.2 | 16                                       | 32.5 | 14.8                | 8.8                               | 975  |
| BZW04-15       | BZW04-15B     | 5                                      | 15.3 | 17.1                                 | 18   | 18.9  | 1  | 25.2 | 16                                       | 32.5 | 14.8                | 8.8                               | 975  |
| BZW04P17       | BZW04P17B     | 5                                      | 17.1 | 19                                   | 20   | 22    | 1  | 27.7 | 14.5                                     | 36.1 | 13.3                | 9.0                               | 850  |
| BZW04-17       | BZW04-17B     | 5                                      | 17.1 | 19                                   | 20   | 21    | 1  | 27.7 | 14.5                                     | 36.1 | 13.3                | 9.0                               | 850  |
| BZW04P19       | BZW04P19B     | 5                                      | 18.8 | 20.9                                 | 22   | 24.2  | 1  | 30.6 | 13                                       | 39.3 | 12.2                | 9.2                               | 800  |
| BZW04-19       | BZW04-19B     | 5                                      | 18.8 | 20.9                                 | 22   | 23.1  | 1  | 30.6 | 13                                       | 39.3 | 12.2                | 9.2                               | 800  |
| BZW04P20       | P BZW04P20B   | 5                                      | 20.5 | 22.8                                 | 24   | 26.4  | 1  | 33.2 | 12                                       | 42.8 | 11.2                | 9.4                               | 725  |
| BZW04-20       | BZW04-20B     | 5                                      | 20.5 | 22.8                                 | 24   | 25.2  | 1  | 33.2 | 12                                       | 42.8 | 11.2                | 9.4                               | 725  |
| P BZW04P23     | BZW04P23B     | 5                                      | 23.1 | 25.7                                 | 27   | 29.7  | 1  | 37.5 | 10.7                                     | 48.3 | 9.9                 | 9.6                               | 625  |
| BZW04-23       | BZW04-23B     | 5                                      | 23.1 | 25.7                                 | 27   | 28.4  | 1  | 37.5 | 10.7                                     | 48.3 | 9.9                 | 9.6                               | 625  |
| P BZW04P26     | P BZW04P26B   | 5                                      | 25.6 | 28.5                                 | 30   | 33    | 1  | 41.5 | 9.6                                      | 53.5 | 9.0                 | 9.7                               | 575  |
| BZW04-26       | BZW04-26B     | 5                                      | 25.6 | 28.5                                 | 30   | 31.5  | 1  | 41.5 | 9.6                                      | 53.5 | 9.0                 | 9.7                               | 575  |
| BZW04P28       | P BZW04P28B   | 5                                      | 28.2 | 31.4                                 | 33   | 36.3  | 1  | 45.7 | 8.8                                      | 59   | 81.5                | 9.8                               | 510  |
| BZW04-28       | BZW04-28B     | 5                                      | 28.2 | 31.4                                 | 33   | 34.7  | 1  | 45.7 | 8.8                                      | 59   | 81.5                | 9.8                               | 510  |
| P BZW04P31     | P BZW04P31B   | 5                                      | 30.8 | 34.2                                 | 36   | 39.6  | 1  | 49.9 | 8  | 64.3 | 74.5                | 9.9                               | 480  |
| BZW04-31       | BZW04-31B     | 5                                      | 30.8 | 34.2                                 | 36   | 37.8  | 1  | 49.9 | 8  | 64.3 | 74.5                | 9.9                               | 480  |
| P BZW04P33     | BZW04P33B     | 5                                      | 33.3 | 37.1                                 | 39   | 42.9  | 1  | 53.9 | 7.4                                      | 69.7 | 69                  | 10.0                              | 450  |

\* Pulse test t<sub>p</sub> ≤ 50 ms δ < 2 %

\*\* Divide these values by 2 for bidirectional types.

For bidirectional types, electrical characteristics apply in both directions

P : Preferred device

| Types          |               | I <sub>RM</sub> @ V <sub>RM</sub><br>max. |      | V <sub>(BR)</sub> * @ I <sub>R</sub> |      |      | V <sub>(CL)</sub> @ I <sub>pp</sub><br>max. |      | V <sub>(CL)</sub> @ I <sub>pp</sub><br>max. |      | α <sub>T</sub><br>max. | C**<br>typ.<br>V <sub>R</sub> =1MHz<br>f=1MHz |      |
|----------------|---------------|---|------|--------------------------------------|------|------|---|------|---|------|------------------------|---|------|
| Unidirectional | Bidirectional | (μA)                                      | (V)  | min.                                 | nom. | max. | (mA)  | (V)  | (A)   | (V)  | (A)                    | (10 <sup>-4</sup> /°C)                        | (pF) |
| BZW04-33       | BZW04-33B     | 5   | 33.3 | 37.1                                 | 39   | 41   | 1   | 53.9 | 7.4   | 69.7 | 69                     | 10.0  | 450  |
| BZW04P37       | P BZW04P37B   | 5   | 36.8 | 40.9                                 | 43   | 47.3 | 1   | 59.3 | 6.7   | 76.8 | 62.5                   | 10.1  | 400  |
| BZW04-37       | BZW04-37B     | 5   | 36.8 | 40.9                                 | 43   | 45.2 | 1   | 59.3 | 6.7   | 76.8 | 62.5                   | 10.1  | 400  |
| BZW04P40       | BZW04P40B     | 5   | 40.2 | 44.7                                 | 47   | 51.7 | 1   | 64.8 | 6.2   | 84   | 57                     | 10.1  | 370  |
| BZW04-40       | BZW04-40B     | 5   | 40.2 | 44.7                                 | 47   | 49.4 | 1   | 64.8 | 6.2   | 84   | 57                     | 10.1  | 370  |
| BZW04P44       | BZW04P44B     | 5   | 43.6 | 48.5                                 | 51   | 56.1 | 1   | 70.1 | 5.7   | 91   | 52.5                   | 10.2  | 350  |
| BZW04-44       | BZW04-44B     | 5   | 43.6 | 48.5                                 | 51   | 53.6 | 1   | 70.1 | 5.7   | 91   | 52.5                   | 10.2  | 350  |
| BZW04P48       | BZW04P48B     | 5   | 47.8 | 53.2                                 | 56   | 61.6 | 1   | 77   | 5.2   | 100  | 48                     | 10.3  | 320  |
| BZW04-48       | BZW04-48B     | 5   | 47.8 | 53.2                                 | 56   | 58.8 | 1   | 77   | 5.2   | 100  | 48                     | 10.3  | 320  |
| BZW04P53       | BZW04P53B     | 5   | 53   | 58.9                                 | 62   | 68.2 | 1   | 85   | 4.7   | 111  | 43                     | 10.4  | 290  |
| BZW04-53       | BZW04-53B     | 5   | 53   | 58.9                                 | 62   | 65.1 | 1   | 85   | 4.7   | 111  | 43                     | 10.4  | 290  |
| BZW04P58       | BZW04P58B     | 5   | 58.1 | 64.6                                 | 68   | 74.8 | 1   | 92   | 4.3   | 121  | 39.5                   | 10.4  | 270  |
| BZW04-58       | BZW04-58B     | 5   | 58.1 | 64.6                                 | 68   | 71.4 | 1   | 92   | 4.3   | 121  | 39.5                   | 10.4  | 270  |
| BZW04P64       | BZW04P64B     | 5   | 64.1 | 71.3                                 | 75   | 82.5 | 1   | 103  | 3.9   | 134  | 36                     | 10.5  | 250  |
| BZW04-64       | BZW04-64B     | 5   | 64.1 | 71.3                                 | 75   | 78.8 | 1   | 103  | 3.9   | 134  | 36                     | 10.5  | 250  |
| BZW04P70       | P BZW04P70B   | 5   | 70.1 | 77.9                                 | 82   | 90.2 | 1   | 113  | 3.5   | 146  | 33                     | 10.5  | 230  |
| BZW04-70       | BZW04-70B     | 5   | 70.1 | 77.9                                 | 82   | 86.1 | 1   | 113  | 3.5   | 146  | 33                     | 10.5  | 230  |
| BZW04P78       | BZW04P78B     | 5   | 77.8 | 86.5                                 | 91   | 100  | 1   | 125  | 3.2   | 162  | 29.5                   | 10.6  | 210  |
| BZW04-78       | BZW04-78B     | 5   | 77.8 | 86.5                                 | 91   | 95.5 | 1   | 125  | 3.2   | 162  | 29.5                   | 10.6  | 210  |
| P BZW04P85     | BZW04P85B     | 5   | 85.5 | 95                                   | 100  | 110  | 1   | 137  | 2.9   | 178  | 27                     | 10.6  | 200  |
| BZW04-85       | BZW04-85B     | 5   | 85.5 | 95                                   | 100  | 105  | 1   | 137  | 2.9   | 178  | 27                     | 10.6  | 200  |
| BZW04P94       | BZW04P94B     | 5   | 94   | 105                                  | 110  | 121  | 1   | 152  | 2.6   | 195  | 24.5                   | 10.7  | 185  |
| BZW04-94       | BZW04-94B     | 5   | 94   | 105                                  | 110  | 116  | 1   | 152  | 2.6   | 195  | 24.5                   | 10.7  | 185  |
| BZW04P102      | BZW04P102B    | 5   | 102  | 114                                  | 120  | 132  | 1   | 165  | 2.4   | 212  | 22.5                   | 10.7  | 170  |
| BZW04-102      | BZW04-102B    | 5   | 102  | 114                                  | 120  | 126  | 1   | 165  | 2.4   | 212  | 22.5                   | 10.7  | 170  |
| P BZW04P111    | BZW04P111B    | 5   | 111  | 124                                  | 130  | 143  | 1   | 179  | 2.2   | 230  | 20.8                   | 10.7  | 165  |
| BZW04-111      | BZW04-111B    | 5   | 111  | 124                                  | 130  | 137  | 1   | 179  | 2.2   | 230  | 20.8                   | 10.7  | 165  |
| P BZW04P128    | P BZW04P128B  | 5   | 128  | 143                                  | 150  | 165  | 1   | 207  | 2.0   | 265  | 18.1                   | 10.8  | 145  |
| BZW04-128      | BZW04-128B    | 5   | 128  | 143                                  | 150  | 158  | 1   | 207  | 2.0   | 265  | 18.1                   | 10.8  | 145  |
| P BZW04P136    | P BZW04P136B  | 5   | 136  | 152                                  | 160  | 176  | 1   | 219  | 1.8   | 282  | 17                     | 10.8  | 140  |
| BZW04-136      | BZW04-136B    | 5   | 136  | 152                                  | 160  | 168  | 1   | 219  | 1.8   | 282  | 17                     | 10.8  | 140  |
| P BZW04P145    | BZW04P145B    | 5   | 145  | 161                                  | 170  | 187  | 1   | 234  | 1.7   | 301  | 16                     | 10.8  | 135  |
| BZW04-145      | BZW04-145B    | 5   | 145  | 161                                  | 170  | 179  | 1   | 234  | 1.7   | 301  | 16                     | 10.8  | 135  |
| BZW04P154      | BZW04P154B    | 5   | 154  | 171                                  | 180  | 198  | 1   | 246  | 1.6   | 317  | 15.1                   | 10.8  | 125  |
| BZW04-154      | BZW04-154B    | 5   | 154  | 171                                  | 180  | 189  | 1   | 246  | 1.6   | 317  | 15.1                   | 10.8  | 125  |
| BZW04P171      | BZW04P171B    | 5   | 171  | 190                                  | 200  | 220  | 1   | 274  | 1.5   | 353  | 13.6                   | 10.8  | 120  |
| BZW04-171      | BZW04-171B    | 5   | 171  | 190                                  | 200  | 210  | 1   | 274  | 1.5   | 353  | 13.6                   | 10.8  | 120  |
| BZW04P188      | P BZW04P188B  | 5   | 188  | 209                                  | 220  | 242  | 1   | 301  | 1.4   | 388  | 12.4                   | 10.8  | 110  |
| BZW04-188      | BZW04-188B    | 5   | 188  | 209                                  | 220  | 231  | 1   | 301  | 1.4   | 388  | 12.4                   | 10.8  | 110  |
| P BZW04P213    | BZW04P213B    | 5   | 213  | 237                                  | 250  | 275  | 1   | 344  | 1.5   | 442  | 12                     | 11  | 100  |
| BZW04-213      | BZW04-213B    | 5   | 213  | 237                                  | 250  | 263  | 1   | 344  | 1.5   | 442  | 12                     | 11  | 100  |
| P BZW04P239    | BZW04P239B    | 5   | 239  | 266                                  | 280  | 308  | 1   | 384  | 1.5   | 494  | 12                     | 11  | 95   |
| BZW04-239      | BZW04-239B    | 5   | 239  | 266                                  | 280  | 294  | 1   | 384  | 1.5   | 494  | 12                     | 11  | 95   |
| BZW04P256      | BZW04P256B    | 5   | 256  | 285                                  | 300  | 330  | 1   | 414  | 1.2   | 529  | 10                     | 11  | 90   |
| BZW04-256      | BZW04-256B    | 5   | 256  | 285                                  | 300  | 315  | 1   | 414  | 1.2   | 529  | 10                     | 11  | 90   |
| BZW04P273      | BZW04P273B    | 5   | 273  | 304                                  | 320  | 352  | 1   | 438  | 1.2   | 564  | 10                     | 11  | 85   |
| BZW04-273      | BZW04-273B    | 5   | 273  | 304                                  | 320  | 336  | 1   | 438  | 1.2   | 564  | 10                     | 11  | 85   |
| P BZW04P299    | BZW04P299B    | 5   | 299  | 332                                  | 350  | 385  | 1   | 482  | 0.9   | 618  | 9                      | 11  | 80   |
| BZW04-299      | BZW04-299B    | 5   | 299  | 332                                  | 350  | 368  | 1   | 482  | 0.9   | 618  | 9                      | 11  | 80   |
| BZW04P342      | BZW04P342B    | 5   | 342  | 380                                  | 400  | 440  | 1   | 548  | 0.9   | 706  | 8                      | 11  | 75   |
| BZW04-342      | BZW04-342B    | 5   | 342  | 380                                  | 400  | 420  | 1   | 548  | 0.9   | 706  | 8                      | 11  | 75   |
| BZW04P376      | BZW04P376B    | 5   | 376  | 418                                  | 440  | 484  | 1   | 603  | 0.8   | 776  | 8                      | 11  | 70   |
| BZW04-376      | BZW04-376B    | 5   | 376  | 418                                  | 440  | 462  | 1   | 603  | 0.8   | 776  | 8                      | 11  | 70   |

\* Pulse test t<sub>b</sub> < 50 ms δ < 2%.

\*\* Divide these values by 2 for bidirectional types.

For bidirectional types, electrical characteristics apply in both directions.

P: Preferred device.

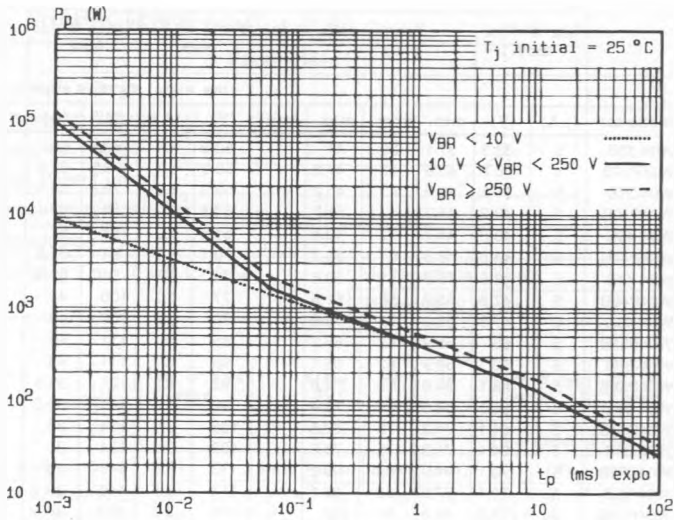


Fig.1 - Peak pulse power versus exponential pulse duration.

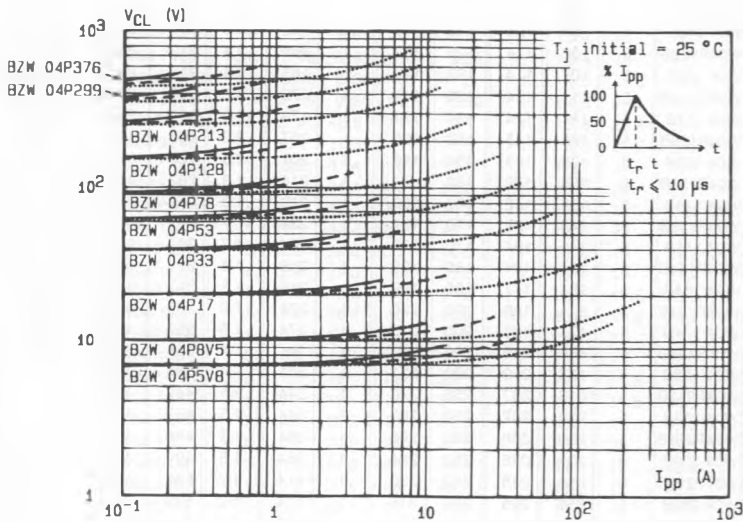


Fig.2 - Clamping voltage versus peak pulse current.  
 exponential waveform  $t = 20 \mu s$  .....  
 $t = 1 ms$  ----  
 $t = 10 ms$  ———

Note : The curves of the figure 2 are specified for a junction temperature of 25 °C before surge. The given results may be extrapolated for other junction temperatures by using the following formula :  $\Delta V (BR) = \alpha \cdot V (BR) \cdot [T_j - 25] \times V (BR)$   
 For intermediate voltages, extrapolate the given results.

D88BZW04P4

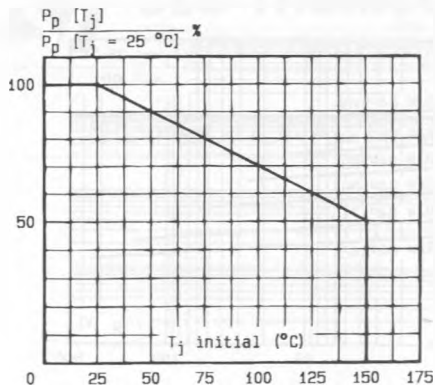


Fig. 3 - Allowable power dissipation versus junction temperature.

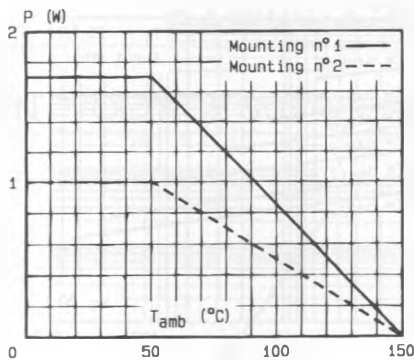


Fig. 4 - Power dissipation versus ambient temperature.

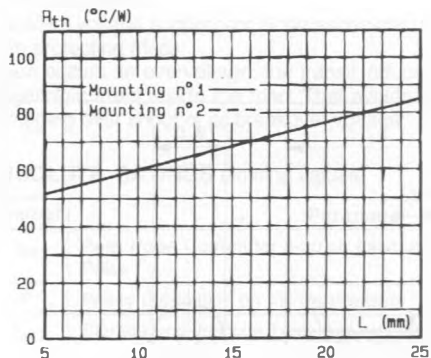


Fig. 5 - Thermal resistance versus lead length.

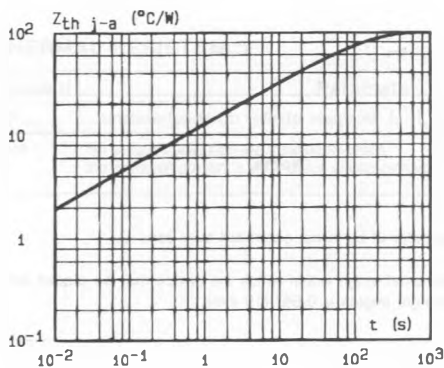


Fig. 6 - Transient thermal impedance junction-ambient for mounting n°2 versus pulse duration (L = 10 mm).

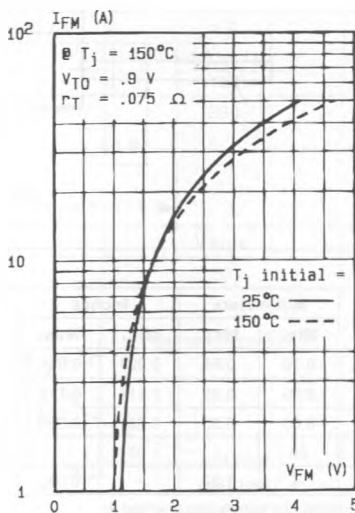
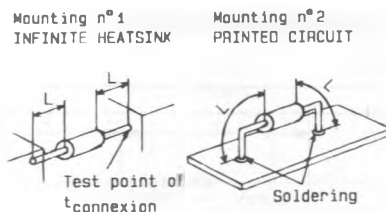


Fig. 7 - Peak forward current versus peak forward voltage drop (typical values for unidirectional types).

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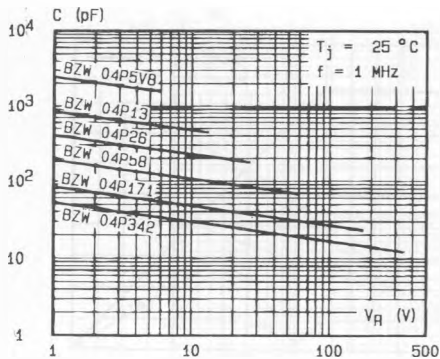


Fig.8a - Capacitance versus reverse applied voltage for unidirectional types (typical values).

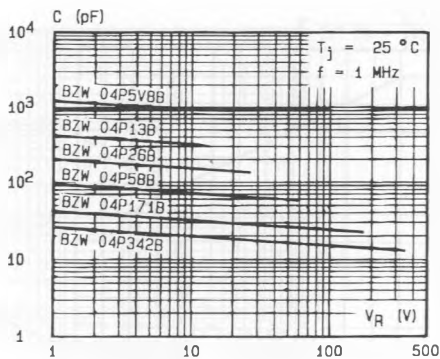
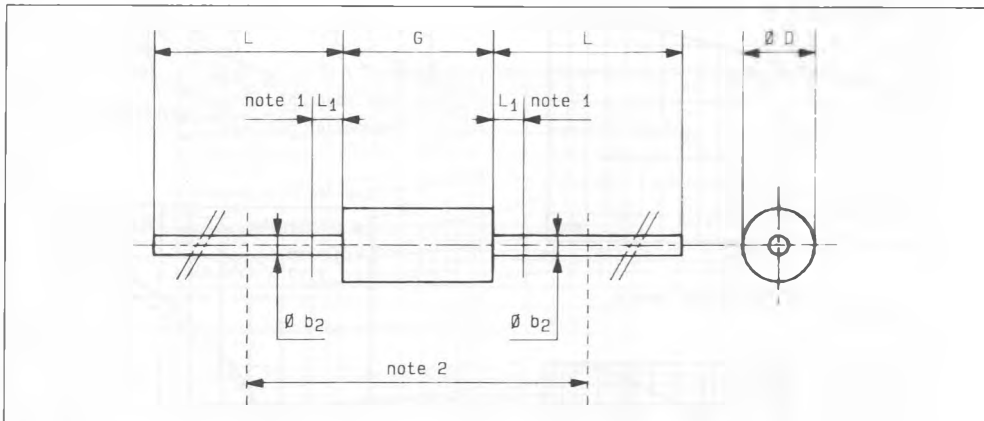


Fig.8b - Capacitance versus reverse applied voltage for bidirectional types (typical values).

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**PACKAGE MECHANICAL DATA**

F 126 Plastic



| Ref.             | Millimeters |      | Inches |       | Notes   |
|------------------|-------------|------|--------|-------|---|
|                  | Min.        | Max. | Min.   | Max.  |   |
| Ø b <sub>2</sub> | 0.76        | 0.86 | 0.029  | 0.034 | 1 - The lead diameter Ø b <sub>2</sub> is not controlled over zone L <sub>1</sub> .<br>2 - The minimum axial length within which the device may be placed with its leads bent at right angles is 0.59" (15 mm). |
| Ø D              | 2.95        | 3.05 | 0.116  | 0.120 |   |
| G                | 6.05        | 6.35 | 0.238  | 0.250 |   |
| L                | 26          | -    | 1.024  | -     |   |
| L <sub>1</sub>   | -           | 1.27 | -      | 0.050 |   |

Cooling method : by convection (method A)

Marking : type number ; white band indicates cathode for unidirectional types

Weight : 0.4 g