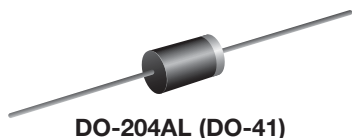


# TRANSZORB® Transient Voltage Suppressors



DO-204AL (DO-41)

## FEATURES

- Glass passivated chip junction
- Available in uni-directional and bi-directional
- 400 W peak pulse power capability with a 10/1000  $\mu$ s waveform, repetitive rate (duty cycle): 0.01 %
- Excellent clamping capability
- Very fast response time
- Low incremental surge resistance
- Solder dip 275 °C max. 10 s, per JESD 22-B106
- AEC-Q101 qualified
- Material categorization: For definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



**RoHS**  
COMPLIANT

| PRIMARY CHARACTERISTICS          |                                 |
|----------------------------------|---------------------------------|
| $V_{WM}$                         | 5.8 V to 376 V                  |
| $V_{BR}$ (uni-directional)       | 6.45 V to 462 V                 |
| $V_{BR}$ (bi-directional)        | 6.45 V to 462 V                 |
| $P_{PPM}$                        | 400 W                           |
| $P_D$                            | 1.5 W                           |
| $I_{FSM}$ (uni-directional only) | 40 A                            |
| $T_J$ max.                       | 175 °C                          |
| Polarity                         | Uni-directional, bi-directional |
| Package                          | DO-204AL (DO-41)                |

## DEVICES FOR BI-DIRECTION APPLICATIONS

For bi-directional types, use B suffix (e.g. BZW04P-6V4B).

Electrical characteristics apply in both directions.

## TYPICAL APPLICATIONS

Use in sensitive electronics protection against voltage transients induced by inductive load switching and lighting on ICs, MOSFET, signal lines of sensor units for consumer, computer, industrial, and telecommunication.

## MECHANICAL DATA

**Case:** DO-204AL, molded epoxy over passivated chip

Molding compound meets UL 94 V-0 flammability rating

Base P/N-E3 - RoHS-compliant, commercial grade

Base P/NHE3 - RoHS-compliant, AEC-Q101 qualified

**Terminals:** Matte tin plated leads, solderable per J-STD-002 and JESD22-B102

E3 suffix meets JESD 201 class 1A whisker test, HE3 suffix meets JESD 201 class 2 whisker test

### Note

- BZW04-213(B) to BZW04-376(B) for commercial grade only

**Polarity:** For uni-directional types the color band denotes cathode end, no marking on bi-directional types

| MAXIMUM RATINGS AND THERMAL CHARACTERISTICS ( $T_A = 25$ °C unless otherwise noted)          |                |                |      |
|----------------------------------------------------------------------------------------------|----------------|----------------|------|
| PARAMETER                                                                                    | SYMBOL         | LIMIT          | UNIT |
| Peak pulse power dissipation with a 10/1000 $\mu$ s waveform <sup>(1)</sup> (fig. 1)         | $P_{PPM}$      | 400            | W    |
| Peak pulse current with a 10/1000 $\mu$ s waveform <sup>(1)</sup>                            | $I_{PPM}$      | See next table | A    |
| Power dissipation on infinite heatsink at $T_L = 75$ °C (fig. 5)                             | $P_D$          | 1.5            | W    |
| Peak forward surge current, 8.3 ms single half sine-wave uni-directional only <sup>(2)</sup> | $I_{FSM}$      | 40             | A    |
| Maximum instantaneous forward voltage at 25 A for uni-directional only <sup>(3)</sup>        | $V_F$          | 3.5/5.0        | V    |
| Operating junction and storage temperature range                                             | $T_J, T_{STG}$ | -55 to +175    | °C   |

### Notes

<sup>(1)</sup> Non-repetitive current pulse, per fig. 3 and derated above  $T_A = 25$  °C per fig. 2

<sup>(2)</sup> Measured on 8.3 ms single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum

<sup>(3)</sup>  $V_F = 3.5$  V for BZW04P(-)188 and below;  $V_F = 5.0$  V for BZW04P(-)213 and above

**ELECTRICAL CHARACTERISTICS** ( $T_A = 25^\circ\text{C}$  unless otherwise noted)

| PART NUMBER           | BREAKDOWN VOLTAGE<br>V <sub>BR</sub> AT I <sub>T</sub> <sup>(1)</sup><br>(V) |      | TEST CURRENT<br>I <sub>T</sub> (mA) | STAND-OFF VOLTAGE<br>V <sub>WM</sub><br>(V) | MAXIMUM REVERSE LEAKAGE<br>AT V <sub>WM</sub><br>I <sub>D</sub> <sup>(4)</sup> (μA) | MAXIMUM PEAK PULSE CURRENT<br>I <sub>PPM</sub> <sup>(2)</sup> (A) | MAXIMUM CLAMPING VOLTAGE AT<br>I <sub>PPM</sub><br>V <sub>C</sub> (V) | MAXIMUM TEMPERATURE COEFFICIENT<br>OF<br>V <sub>BR</sub> (%/°C) |
|-----------------------|------------------------------------------------------------------------------|------|-------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------|
|                       | MIN.                                                                         | MAX. |                                     |                                             |                                                                                     |                                                                   |                                                                       |                                                                 |
| UNI-DIRECTIONAL TYPES |                                                                              |      |                                     |                                             |                                                                                     |                                                                   |                                                                       |                                                                 |
| BZW04-5V8             | 6.45                                                                         | 7.14 | 10.0                                | 5.80                                        | 1000                                                                                | 38.0                                                              | 10.5                                                                  | 0.057                                                           |
| BZW04-6V4             | 7.13                                                                         | 7.88 | 10.0                                | 6.40                                        | 500                                                                                 | 35.4                                                              | 11.3                                                                  | 0.061                                                           |
| BZW04-7V0             | 7.79                                                                         | 8.61 | 10.0                                | 7.02                                        | 200                                                                                 | 33.0                                                              | 12.1                                                                  | 0.065                                                           |
| BZW04-7V8             | 8.65                                                                         | 9.55 | 1.0                                 | 7.78                                        | 50                                                                                  | 30.0                                                              | 13.4                                                                  | 0.073                                                           |
| BZW04-8V5             | 9.50                                                                         | 10.5 | 1.0                                 | 8.55                                        | 10                                                                                  | 27.6                                                              | 14.5                                                                  | 0.075                                                           |
| BZW04-9V4             | 10.5                                                                         | 11.6 | 1.0                                 | 9.4                                         | 5.0                                                                                 | 25.7                                                              | 15.6                                                                  | 0.075                                                           |
| BZW04-10              | 11.4                                                                         | 12.6 | 1.0                                 | 10.2                                        | 1.0                                                                                 | 24.0                                                              | 16.7                                                                  | 0.078                                                           |
| BZW04-11              | 12.4                                                                         | 13.7 | 1.0                                 | 11.1                                        | 1.0                                                                                 | 22.0                                                              | 18.2                                                                  | 0.081                                                           |
| BZW04-13              | 14.3                                                                         | 15.8 | 1.0                                 | 12.8                                        | 1.0                                                                                 | 19.0                                                              | 21.2                                                                  | 0.084                                                           |
| BZW04-14              | 15.2                                                                         | 16.8 | 1.0                                 | 13.6                                        | 1.0                                                                                 | 17.8                                                              | 22.5                                                                  | 0.086                                                           |
| BZW04-15              | 17.1                                                                         | 18.9 | 1.0                                 | 15.3                                        | 1.0                                                                                 | 16.0                                                              | 25.2                                                                  | 0.088                                                           |
| BZW04-17              | 19.0                                                                         | 21.0 | 1.0                                 | 17.1                                        | 1.0                                                                                 | 14.5                                                              | 27.7                                                                  | 0.090                                                           |
| BZW04-19              | 20.9                                                                         | 23.1 | 1.0                                 | 18.8                                        | 1.0                                                                                 | 13.0                                                              | 30.6                                                                  | 0.092                                                           |
| BZW04-20              | 22.8                                                                         | 25.2 | 1.0                                 | 20.5                                        | 1.0                                                                                 | 12.0                                                              | 33.2                                                                  | 0.094                                                           |
| BZW04-23              | 25.7                                                                         | 28.4 | 1.0                                 | 23.1                                        | 1.0                                                                                 | 10.7                                                              | 37.5                                                                  | 0.096                                                           |
| BZW04-26              | 28.5                                                                         | 31.5 | 1.0                                 | 25.6                                        | 1.0                                                                                 | 9.6                                                               | 41.5                                                                  | 0.097                                                           |
| BZW04-28              | 31.4                                                                         | 34.7 | 1.0                                 | 28.2                                        | 1.0                                                                                 | 8.8                                                               | 45.7                                                                  | 0.098                                                           |
| BZW04-31              | 34.2                                                                         | 37.8 | 1.0                                 | 30.8                                        | 1.0                                                                                 | 8.0                                                               | 49.9                                                                  | 0.099                                                           |
| BZW04-33              | 37.1                                                                         | 41.0 | 1.0                                 | 33.3                                        | 1.0                                                                                 | 7.4                                                               | 53.9                                                                  | 0.100                                                           |
| BZW04-37              | 40.9                                                                         | 45.2 | 1.0                                 | 36.8                                        | 1.0                                                                                 | 6.7                                                               | 59.3                                                                  | 0.101                                                           |
| BZW04-40              | 44.7                                                                         | 49.4 | 1.0                                 | 40.2                                        | 1.0                                                                                 | 6.2                                                               | 64.8                                                                  | 0.101                                                           |
| BZW04-44              | 48.5                                                                         | 53.6 | 1.0                                 | 43.6                                        | 1.0                                                                                 | 5.7                                                               | 70.1                                                                  | 0.102                                                           |
| BZW04-48              | 53.2                                                                         | 58.8 | 1.0                                 | 47.8                                        | 1.0                                                                                 | 5.2                                                               | 77.0                                                                  | 0.103                                                           |
| BZW04-53              | 58.9                                                                         | 65.1 | 1.0                                 | 53.0                                        | 1.0                                                                                 | 4.7                                                               | 85.0                                                                  | 0.104                                                           |
| BZW04-58              | 64.6                                                                         | 71.4 | 1.0                                 | 58.1                                        | 1.0                                                                                 | 4.3                                                               | 92.0                                                                  | 0.104                                                           |
| BZW04-64              | 71.3                                                                         | 78.8 | 1.0                                 | 64.1                                        | 1.0                                                                                 | 3.9                                                               | 103                                                                   | 0.105                                                           |
| BZW04-70              | 77.9                                                                         | 86.1 | 1.0                                 | 70.1                                        | 1.0                                                                                 | 3.5                                                               | 113                                                                   | 0.105                                                           |
| BZW04-78              | 86.5                                                                         | 95.5 | 1.0                                 | 78.0                                        | 1.0                                                                                 | 3.2                                                               | 125                                                                   | 0.105                                                           |
| BZW04-85              | 95.0                                                                         | 105  | 1.0                                 | 85.5                                        | 1.0                                                                                 | 2.9                                                               | 137                                                                   | 0.106                                                           |
| BZW04-94              | 105                                                                          | 116  | 1.0                                 | 94.0                                        | 1.0                                                                                 | 2.6                                                               | 152                                                                   | 0.107                                                           |
| BZW04-102             | 114                                                                          | 126  | 1.0                                 | 102                                         | 1.0                                                                                 | 2.4                                                               | 165                                                                   | 0.107                                                           |
| BZW04-110             | 124                                                                          | 137  | 1.0                                 | 111                                         | 1.0                                                                                 | 2.2                                                               | 179                                                                   | 0.107                                                           |
| BZW04-128             | 143                                                                          | 158  | 1.0                                 | 128                                         | 1.0                                                                                 | 2.0                                                               | 207                                                                   | 0.108                                                           |
| BZW04-136             | 152                                                                          | 168  | 1.0                                 | 136                                         | 1.0                                                                                 | 1.8                                                               | 219                                                                   | 0.108                                                           |
| BZW04-145             | 161                                                                          | 179  | 1.0                                 | 145                                         | 1.0                                                                                 | 1.7                                                               | 234                                                                   | 0.108                                                           |
| BZW04-154             | 171                                                                          | 189  | 1.0                                 | 154                                         | 1.0                                                                                 | 1.6                                                               | 246                                                                   | 0.108                                                           |
| BZW04-171             | 190                                                                          | 210  | 1.0                                 | 171                                         | 1.0                                                                                 | 1.5                                                               | 274                                                                   | 0.108                                                           |
| BZW04-188             | 209                                                                          | 231  | 1.0                                 | 188                                         | 1.0                                                                                 | 1.4                                                               | 301                                                                   | 0.108                                                           |
| BZW04-213             | 237                                                                          | 263  | 1.0                                 | 213                                         | 1.0                                                                                 | 1.2                                                               | 344                                                                   | 0.110                                                           |
| BZW04-239             | 266                                                                          | 294  | 1.0                                 | 239                                         | 1.0                                                                                 | 1.1                                                               | 384                                                                   | 0.110                                                           |
| BZW04-256             | 285                                                                          | 315  | 1.0                                 | 256                                         | 1.0                                                                                 | 1.0                                                               | 414                                                                   | 0.110                                                           |
| BZW04-273             | 304                                                                          | 336  | 1.0                                 | 273                                         | 1.0                                                                                 | 0.90                                                              | 438                                                                   | 0.110                                                           |
| BZW04-299             | 332                                                                          | 368  | 1.0                                 | 299                                         | 1.0                                                                                 | 0.80                                                              | 482                                                                   | 0.110                                                           |
| BZW04-342             | 380                                                                          | 420  | 1.0                                 | 342                                         | 1.0                                                                                 | 0.75                                                              | 548                                                                   | 0.110                                                           |
| BZW04-376             | 418                                                                          | 462  | 1.0                                 | 376                                         | 1.0                                                                                 | 0.67                                                              | 603                                                                   | 0.110                                                           |

**ELECTRICAL CHARACTERISTICS** ( $T_A = 25\text{ }^{\circ}\text{C}$  unless otherwise noted)

| PART NUMBER          | BREAKDOWN VOLTAGE<br>V <sub>BR</sub> AT I <sub>T</sub> <sup>(1)</sup><br>(V) |      | TEST CURRENT<br>I <sub>T</sub> (mA) | STAND-OFF VOLTAGE<br>V <sub>WM</sub><br>(V) | MAXIMUM REVERSE LEAKAGE<br>AT V <sub>WM</sub><br>I <sub>D</sub> <sup>(4)</sup> (μA) | MAXIMUM PEAK PULSE CURRENT<br>I <sub>PPM</sub> <sup>(2)</sup> (A) | MAXIMUM CLAMPING VOLTAGE AT<br>I <sub>PPM</sub><br>V <sub>C</sub> (V) | MAXIMUM TEMPERATURE COEFFICIENT<br>OF<br>V <sub>BR</sub> (%/°C) |
|----------------------|------------------------------------------------------------------------------|------|-------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------|
|                      | MIN.                                                                         | MAX. |                                     |                                             |                                                                                     |                                                                   |                                                                       |                                                                 |
| BI-DIRECTIONAL TYPES |                                                                              |      |                                     |                                             |                                                                                     |                                                                   |                                                                       |                                                                 |
| BZW04-5V8B           | 6.45                                                                         | 7.14 | 10.0                                | 5.80                                        | 1000                                                                                | 38.0                                                              | 10.5                                                                  | 0.057                                                           |
| BZW04-6V4B           | 7.13                                                                         | 7.88 | 10.0                                | 6.40                                        | 500                                                                                 | 35.4                                                              | 11.3                                                                  | 0.061                                                           |
| BZW04-7V0B           | 7.79                                                                         | 8.61 | 10.0                                | 7.02                                        | 200                                                                                 | 33.0                                                              | 12.1                                                                  | 0.065                                                           |
| BZW04-7V8B           | 8.65                                                                         | 9.55 | 1.0                                 | 7.78                                        | 50                                                                                  | 30.0                                                              | 13.4                                                                  | 0.073                                                           |
| BZW04-8V5B           | 9.50                                                                         | 10.5 | 1.0                                 | 8.55                                        | 10                                                                                  | 27.6                                                              | 14.5                                                                  | 0.075                                                           |
| BZW04-9V4B           | 10.5                                                                         | 11.6 | 1.0                                 | 9.4                                         | 5.0                                                                                 | 25.7                                                              | 15.6                                                                  | 0.075                                                           |
| BZW04-10B            | 11.4                                                                         | 12.6 | 1.0                                 | 10.2                                        | 1.0                                                                                 | 24.0                                                              | 16.7                                                                  | 0.078                                                           |
| BZW04-11B            | 12.4                                                                         | 13.7 | 1.0                                 | 11.1                                        | 1.0                                                                                 | 22.0                                                              | 18.2                                                                  | 0.081                                                           |
| BZW04-13B            | 14.3                                                                         | 15.8 | 1.0                                 | 12.8                                        | 1.0                                                                                 | 19.0                                                              | 21.2                                                                  | 0.084                                                           |
| BZW04-14B            | 15.2                                                                         | 16.8 | 1.0                                 | 13.6                                        | 1.0                                                                                 | 17.8                                                              | 22.5                                                                  | 0.086                                                           |
| BZW04-15B            | 17.1                                                                         | 18.9 | 1.0                                 | 15.3                                        | 1.0                                                                                 | 16.0                                                              | 25.2                                                                  | 0.088                                                           |
| BZW04-17B            | 19.0                                                                         | 21.0 | 1.0                                 | 17.1                                        | 1.0                                                                                 | 14.5                                                              | 27.7                                                                  | 0.090                                                           |
| BZW04-19B            | 20.9                                                                         | 23.1 | 1.0                                 | 18.8                                        | 1.0                                                                                 | 13.0                                                              | 30.6                                                                  | 0.092                                                           |
| BZW04-20B            | 22.8                                                                         | 25.2 | 1.0                                 | 20.5                                        | 1.0                                                                                 | 12.0                                                              | 33.2                                                                  | 0.094                                                           |
| BZW04-23B            | 25.7                                                                         | 28.4 | 1.0                                 | 23.1                                        | 1.0                                                                                 | 10.7                                                              | 37.5                                                                  | 0.096                                                           |
| BZW04-26B            | 28.5                                                                         | 31.5 | 1.0                                 | 25.6                                        | 1.0                                                                                 | 9.6                                                               | 41.5                                                                  | 0.097                                                           |
| BZW04-28B            | 31.4                                                                         | 34.7 | 1.0                                 | 28.2                                        | 1.0                                                                                 | 8.8                                                               | 45.7                                                                  | 0.098                                                           |
| BZW04-31B            | 34.2                                                                         | 37.8 | 1.0                                 | 30.8                                        | 1.0                                                                                 | 8.0                                                               | 49.9                                                                  | 0.099                                                           |
| BZW04-33B            | 37.1                                                                         | 41.0 | 1.0                                 | 33.3                                        | 1.0                                                                                 | 7.4                                                               | 53.9                                                                  | 0.100                                                           |
| BZW04-37B            | 40.9                                                                         | 45.2 | 1.0                                 | 36.8                                        | 1.0                                                                                 | 6.7                                                               | 59.3                                                                  | 0.101                                                           |
| BZW04-40B            | 44.7                                                                         | 49.4 | 1.0                                 | 40.2                                        | 1.0                                                                                 | 6.2                                                               | 64.8                                                                  | 0.101                                                           |
| BZW04-44B            | 48.5                                                                         | 53.6 | 1.0                                 | 43.6                                        | 1.0                                                                                 | 5.7                                                               | 70.1                                                                  | 0.102                                                           |
| BZW04-48B            | 53.2                                                                         | 58.8 | 1.0                                 | 47.8                                        | 1.0                                                                                 | 5.2                                                               | 77.0                                                                  | 0.103                                                           |
| BZW04-53B            | 58.9                                                                         | 65.1 | 1.0                                 | 53.0                                        | 1.0                                                                                 | 4.7                                                               | 85.0                                                                  | 0.104                                                           |
| BZW04-58B            | 64.6                                                                         | 71.4 | 1.0                                 | 58.1                                        | 1.0                                                                                 | 4.3                                                               | 92.0                                                                  | 0.104                                                           |
| BZW04-64B            | 71.3                                                                         | 78.8 | 1.0                                 | 64.1                                        | 1.0                                                                                 | 3.9                                                               | 103                                                                   | 0.105                                                           |
| BZW04-70B            | 77.9                                                                         | 86.1 | 1.0                                 | 70.1                                        | 1.0                                                                                 | 3.5                                                               | 113                                                                   | 0.105                                                           |
| BZW04-78B            | 86.5                                                                         | 95.5 | 1.0                                 | 78.0                                        | 1.0                                                                                 | 3.2                                                               | 125                                                                   | 0.105                                                           |
| BZW04-85B            | 95.0                                                                         | 105  | 1.0                                 | 85.5                                        | 1.0                                                                                 | 2.9                                                               | 137                                                                   | 0.106                                                           |
| BZW04-94B            | 105                                                                          | 116  | 1.0                                 | 94.0                                        | 1.0                                                                                 | 2.6                                                               | 152                                                                   | 0.107                                                           |
| BZW04-102B           | 114                                                                          | 126  | 1.0                                 | 102                                         | 1.0                                                                                 | 2.4                                                               | 165                                                                   | 0.107                                                           |
| BZW04-110B           | 124                                                                          | 137  | 1.0                                 | 111                                         | 1.0                                                                                 | 2.2                                                               | 179                                                                   | 0.107                                                           |
| BZW04-128B           | 143                                                                          | 158  | 1.0                                 | 128                                         | 1.0                                                                                 | 2.0                                                               | 207                                                                   | 0.108                                                           |
| BZW04-136B           | 152                                                                          | 168  | 1.0                                 | 136                                         | 1.0                                                                                 | 1.8                                                               | 219                                                                   | 0.108                                                           |
| BZW04-145B           | 161                                                                          | 179  | 1.0                                 | 145                                         | 1.0                                                                                 | 1.7                                                               | 234                                                                   | 0.108                                                           |
| BZW04-154B           | 171                                                                          | 189  | 1.0                                 | 154                                         | 1.0                                                                                 | 1.6                                                               | 246                                                                   | 0.108                                                           |
| BZW04-171B           | 190                                                                          | 210  | 1.0                                 | 171                                         | 1.0                                                                                 | 1.5                                                               | 274                                                                   | 0.108                                                           |
| BZW04-188B           | 209                                                                          | 231  | 1.0                                 | 188                                         | 1.0                                                                                 | 1.4                                                               | 301                                                                   | 0.108                                                           |
| BZW04-213B           | 237                                                                          | 263  | 1.0                                 | 213                                         | 1.0                                                                                 | 1.2                                                               | 344                                                                   | 0.110                                                           |
| BZW04-239B           | 266                                                                          | 294  | 1.0                                 | 239                                         | 1.0                                                                                 | 1.1                                                               | 384                                                                   | 0.110                                                           |
| BZW04-256B           | 285                                                                          | 315  | 1.0                                 | 256                                         | 1.0                                                                                 | 1.0                                                               | 414                                                                   | 0.110                                                           |
| BZW04-273B           | 304                                                                          | 336  | 1.0                                 | 273                                         | 1.0                                                                                 | 0.90                                                              | 438                                                                   | 0.110                                                           |
| BZW04-299B           | 332                                                                          | 368  | 1.0                                 | 299                                         | 1.0                                                                                 | 0.80                                                              | 482                                                                   | 0.110                                                           |
| BZW04-342B           | 380                                                                          | 420  | 1.0                                 | 342                                         | 1.0                                                                                 | 0.75                                                              | 548                                                                   | 0.110                                                           |
| BZW04-376B           | 418                                                                          | 462  | 1.0                                 | 376                                         | 1.0                                                                                 | 0.67                                                              | 603                                                                   | 0.110                                                           |

**Notes**<sup>(1)</sup> Pulse test:  $t_p \geq 50\text{ ms}$ <sup>(2)</sup> Surge current waveform per fig. 3 and derated per fig. 2<sup>(3)</sup> All terms and symbols are consistent with ANSI/IEEE C62.35<sup>(4)</sup> For bi-directional types having  $V_{WM}$  of 10 V and less, the  $I_D$  limit is doubled

**ORDERING INFORMATION** (Example)

| PREFERRED P/N                | UNIT WEIGHT (g) | PREFERRED PACKAGE CODE | BASE QUANTITY | DELIVERY MODE                    |
|------------------------------|-----------------|------------------------|---------------|----------------------------------|
| BZW0410-E3/54                | 0.350           | 54                     | 550           | 13" diameter paper tape and reel |
| BZW0410HE3/54 <sup>(1)</sup> | 0.350           | 54                     | 550           | 13" diameter paper tape and reel |

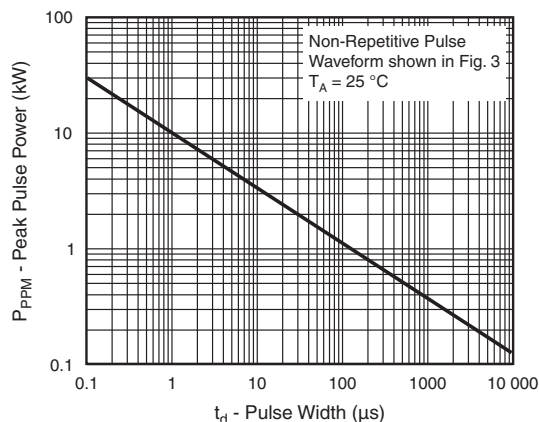
**Note**<sup>(1)</sup> AEC Q101 qualified**RATINGS AND CHARACTERISTICS CURVES** ( $T_A = 25^\circ\text{C}$  unless otherwise noted)

Fig. 1 - Peak Pulse Power Rating Curve

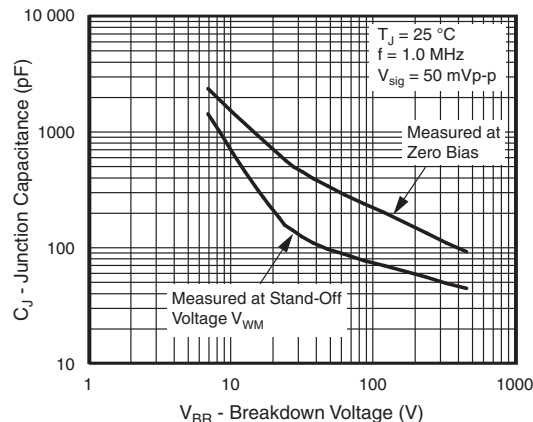


Fig. 4 - Typical Junction Capacitance

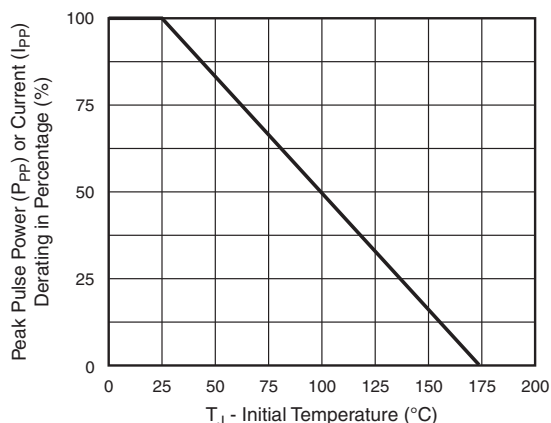


Fig. 2 - Pulse Power or Current vs. Initial Junction Temperature

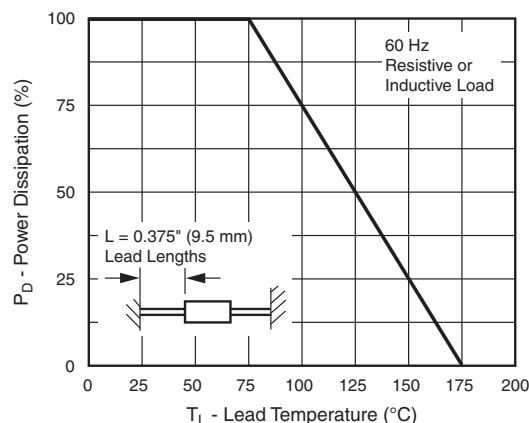


Fig. 5 - Power Derating Curve

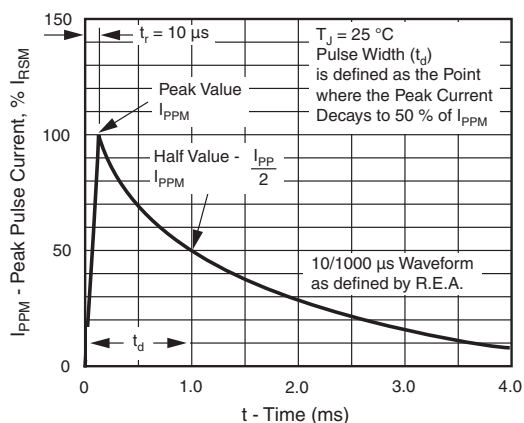
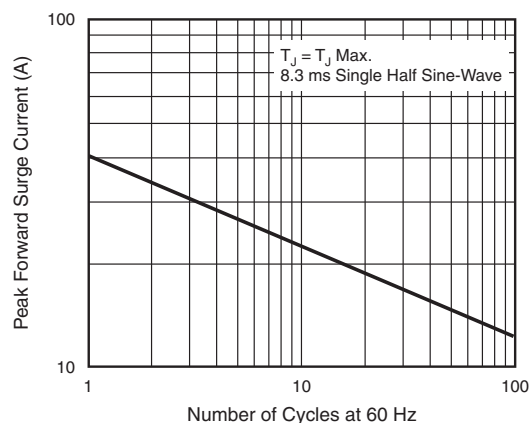


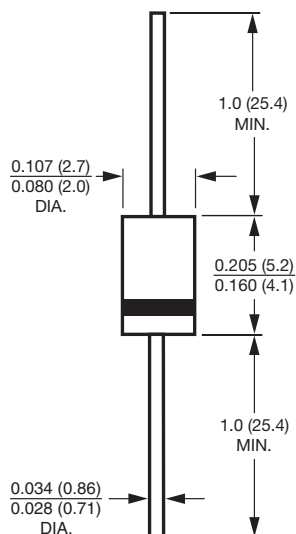
Fig. 3 - Pulse Waveform

Fig. 6 - Max. Non-Repetitive Forward Surge Current  
Uni-Directional Only



**PACKAGE OUTLINE DIMENSIONS** in inches (millimeters)

**DO-204AL (DO-41)**





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