

# EH SERIES

40000A, 130 TO 660V, 2W  
High Energy Metal Oxide Varistor

## Features

- High Current Surge Rating
- Easy Tabbed Connections
- Maximum Power Dissipation: EH 1 Watts
- Typical Response Time is Less than 15 Nanoseconds

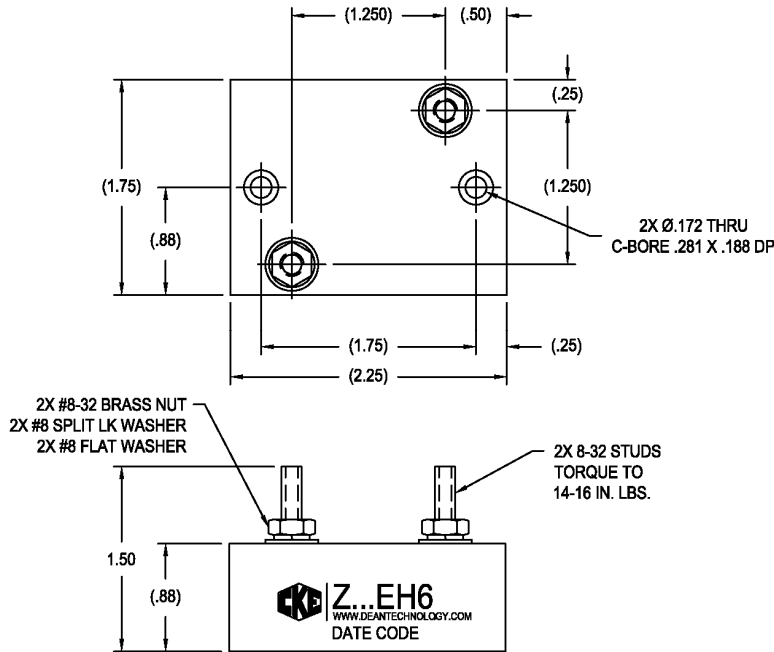


## ELECTRICAL CHARACTERISTICS AND RATINGS

| Part Number | V <sub>RMS</sub><br>V | V <sub>DC</sub><br>V | V <sub>N(DC) MIN</sub><br>V | V <sub>N(DC) NOM</sub><br>V | V <sub>N(DC) MAX</sub><br>V | W <sub>MAX</sub><br>J | V <sub>C</sub><br>V | I <sub>C</sub><br>A | I <sub>P</sub><br>A | C<br>pF | P <sub>D</sub> MAX<br>mm |
|-------------|-----------------------|----------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------|---------------------|---------------------|---------------------|---------|--------------------------|
| Z130EH6     | 130                   | 170                  | 185                         | 200                         | 225                         | 310                   | 340                 | 300                 | 40000               | 7900    | 2                        |
| Z150EH6     | 150                   | 200                  | 216                         | 240                         | 264                         | 360                   | 395                 | 300                 | 40000               | 6600    | 2                        |
| Z250EH6     | 250                   | 300                  | 351                         | 390                         | 429                         | 490                   | 650                 | 300                 | 40000               | 4100    | 2                        |
| Z275EH6     | 275                   | 350                  | 387                         | 430                         | 473                         | 550                   | 710                 | 300                 | 40000               | 3800    | 2                        |
| Z320EH6     | 320                   | 415                  | 459                         | 510                         | 561                         | 640                   | 845                 | 300                 | 40000               | 3200    | 2                        |
| Z420EH6     | 420                   | 560                  | 612                         | 680                         | 748                         | 750                   | 1120                | 300                 | 40000               | 2400    | 2                        |
| Z480EH6     | 485                   | 640                  | 702                         | 780                         | 858                         | 820                   | 1290                | 300                 | 40000               | 2100    | 2                        |
| Z510EH6     | 510                   | 670                  | 738                         | 820                         | 902                         | 900                   | 1355                | 300                 | 40000               | 2000    | 2                        |
| Z550EH6     | 550                   | 745                  | 819                         | 910                         | 1001                        | 960                   | 1500                | 300                 | 40000               | 1800    | 2                        |
| Z575EH6     | 575                   | 765                  | 855                         | 950                         | 1045                        | 1000                  | 1570                | 300                 | 40000               | 1700    | 2                        |
| Z600EH6     | 625                   | 825                  | 900                         | 1000                        | 1100                        | 1055                  | 1650                | 300                 | 40000               | 1600    | 2                        |
| Z660EH6     | 680                   | 895                  | 990                         | 1100                        | 1210                        | 1155                  | 1815                | 300                 | 40000               | 1500    | 2                        |



**CASE OUTLINE AND DIMENSIONS**



**DIMENSIONS IN INCHES**

| Abbreviation    | Trait                                   | Conditions                     |
|-----------------|---|--------------------------------|
| $V_{RMS}$       | Maximum Continuous Operating Voltage AC |                                |
| $V_{DC}$        | Maximum Continuous Operating Voltage DC |                                |
| $V_{N(DC) MIN}$ | Minimum Varistor Voltage                | At 1 mA                        |
| $V_{N(DC) NOM}$ | Nominal Varistor Voltage                | At 1 mA                        |
| $V_{N(DC) MAX}$ | Maximum Varistor Voltage                | At 1 mA                        |
| $W_{MAX}$       | Maximum Energy                          | At 2 mS                        |
| $V_C$           | Maximum Clamping Voltage                | At IC                          |
| $I_C$           | Clamping Current                        |                                |
| $I_{P^1}$       | Maximum Peak Surge Current              | For 8 x 20 $\mu$ s Pulse       |
| $I_{P^2}$       | Maximum Peak Surge Current              | For 8 x 20 $\mu$ s, Two Pulses |
| C               | Typical Capacitance                     | At 1 kHz                       |