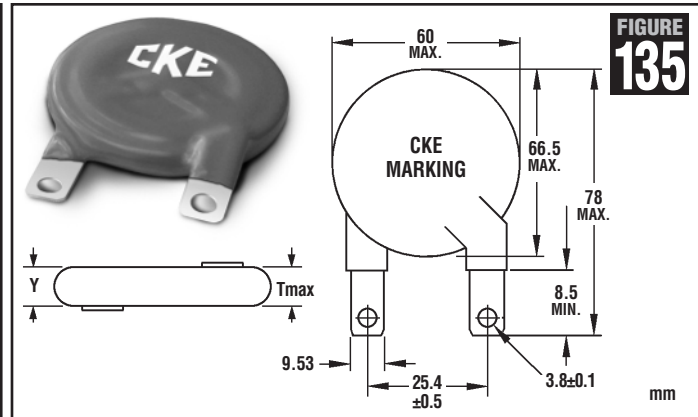
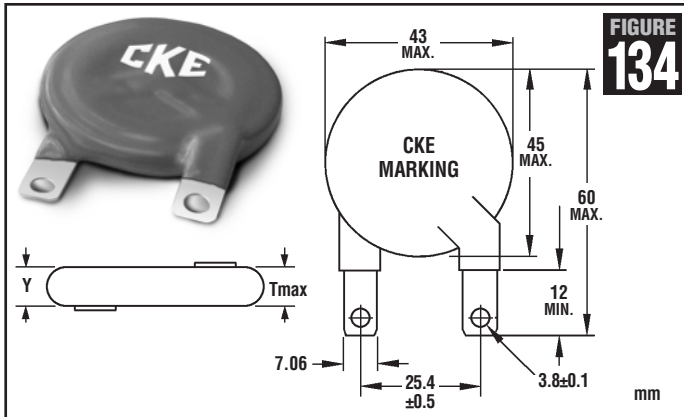




| Part Number                | Agency Mark | Maximum Applied Voltage<br>AC <sub>RMS</sub><br>V | Maximum Applied Voltage<br>DC<br>V | Varistor Voltage<br>@ 1mA <sub>DC</sub><br>V | Maximum Energy<br>2mS<br>J | Maximum Clamping Voltage 8/20μS<br>V <sub>c</sub><br>V | Peak Current 8/20μS<br>I <sub>p</sub><br>A | 1 Time<br>A | 2 Times<br>A | Typical Capacitance<br>1 kHz<br>pF | Dimensions<br>T<br>mm | Dimensions<br>Y<br>mm |
|----------------------------|-------------|---------------------------------------------------|------------------------------------|----------------------------------------------|----------------------------|--------------------------------------------------------|--------------------------------------------|-------------|--------------|------------------------------------|-----------------------|-----------------------|
| <b>Z40RD Series - MOVs</b> |             |                                                   |                                    |                                              |                            |                                                        |                                            |             |              |                                    | <b>Figure 134</b>     |                       |
| Z40RD201                   |             | 130                                               | 170                                | 205(185-225)                                 | 310                        | 340                                                    | 300                                        | 40000       | 25000        | 8600                               | 6.8                   | 4.9                   |
| Z40RD241                   |             | 150                                               | 200                                | 240(216-264)                                 | 360                        | 395                                                    | 300                                        | 40000       | 25000        | 7200                               | 7.0                   | 5.1                   |
| Z40RD271                   |             | 175                                               | 225                                | 270(243-297)                                 | 390                        | 455                                                    | 300                                        | 40000       | 25000        | 6000                               | 7.1                   | 5.2                   |
| Z40RD331                   |             | 210                                               | 275                                | 330(297-363)                                 | 460                        | 550                                                    | 300                                        | 40000       | 25000        | 5400                               | 7.3                   | 5.4                   |
| Z40RD361                   |             | 230                                               | 300                                | 360(324-396)                                 | 475                        | 595                                                    | 300                                        | 40000       | 25000        | 4800                               | 7.5                   | 5.6                   |
| Z40RD391                   |             | 250                                               | 320                                | 390(351-429)                                 | 490                        | 650                                                    | 300                                        | 40000       | 25000        | 4400                               | 7.7                   | 5.8                   |
| Z40RD431                   |             | 275                                               | 350                                | 430(387-473)                                 | 550                        | 710                                                    | 300                                        | 40000       | 25000        | 4100                               | 7.9                   | 6.0                   |
| Z40RD471                   |             | 300                                               | 385                                | 470(423-517)                                 | 600                        | 775                                                    | 300                                        | 40000       | 25000        | 3600                               | 8.1                   | 6.2                   |
| Z40RD511                   |             | 320                                               | 415                                | 510(459-561)                                 | 640                        | 845                                                    | 300                                        | 40000       | 25000        | 3400                               | 8.4                   | 6.5                   |
| Z40RD621                   |             | 385                                               | 505                                | 620(558-682)                                 | 720                        | 1025                                                   | 300                                        | 40000       | 25000        | 2800                               | 9.0                   | 7.1                   |
| Z40RD681                   |             | 420                                               | 560                                | 680(612-748)                                 | 750                        | 1120                                                   | 300                                        | 40000       | 25000        | 2600                               | 9.4                   | 7.5                   |
| Z40RD751                   |             | 460                                               | 615                                | 750(675-825)                                 | 780                        | 1240                                                   | 300                                        | 40000       | 25000        | 2400                               | 9.8                   | 7.9                   |
| Z40RD781                   |             | 485                                               | 640                                | 780(702-858)                                 | 820                        | 1290                                                   | 300                                        | 40000       | 25000        | 2270                               | 10.0                  | 8.0                   |
| Z40RD821                   |             | 510                                               | 670                                | 820(738-902)                                 | 900                        | 1355                                                   | 300                                        | 40000       | 25000        | 2160                               | 10.2                  | 8.3                   |
| Z40RD911                   |             | 550                                               | 745                                | 910(819-1001)                                | 960                        | 1500                                                   | 300                                        | 40000       | 25000        | 1940                               | 10.7                  | 8.8                   |
| Z40RD951                   |             | 575                                               | 765                                | 950(855-1045)                                | 1000                       | 1570                                                   | 300                                        | 40000       | 25000        | 1800                               | 11.0                  | 9.0                   |
| Z40RD102                   |             | 625                                               | 825                                | 1000(900-1100)                               | 1055                       | 1650                                                   | 300                                        | 40000       | 25000        | 1730                               | 11.2                  | 9.3                   |
| Z40RD112                   |             | 680                                               | 895                                | 1100(990-1210)                               | 1155                       | 1815                                                   | 300                                        | 40000       | 25000        | 1620                               | 11.7                  | 9.8                   |
| Z40RD122                   |             | 750                                               | 970                                | 1200(1062-1300)                              | 1200                       | 2100                                                   | 300                                        | 40000       | 25000        | 1400                               | 12.8                  | 10.9                  |
| Z40RD142                   |             | 880                                               | 1150                               | 1400(1245-1520)                              | 1300                       | 2290                                                   | 300                                        | 40000       | 25000        | 1200                               | 13.8                  | 11.9                  |
| Z40RD162                   |             | 1000                                              | 1200                               | 1600(1414-1728)                              | 1400                       | 2700                                                   | 300                                        | 40000       | 25000        | 1080                               | 14.9                  | 13.0                  |
| <b>Z53RD Series - MOVs</b> |             |                                                   |                                    |                                              |                            |                                                        |                                            |             |              |                                    | <b>Figure 135</b>     |                       |
| Z53RD201                   | UL          | 130                                               | 170                                | 205(185-225)                                 | 490                        | 340                                                    | 500                                        | 70000       | 50000        | 14000                              | 6.8                   | 4.9                   |
| Z53RD241                   | UL          | 150                                               | 200                                | 240(216-264)                                 | 570                        | 395                                                    | 500                                        | 70000       | 50000        | 11000                              | 7.0                   | 5.1                   |
| Z53RD271                   | UL          | 175                                               | 225                                | 270(243-297)                                 | 630                        | 455                                                    | 500                                        | 70000       | 50000        | 10000                              | 7.1                   | 5.2                   |
| Z53RD331                   | UL          | 210                                               | 275                                | 330(297-363)                                 | 680                        | 550                                                    | 500                                        | 70000       | 50000        | 8500                               | 7.3                   | 5.4                   |
| Z53RD361                   | UL          | 230                                               | 300                                | 360(324-396)                                 | 730                        | 595                                                    | 500                                        | 70000       | 50000        | 7700                               | 7.5                   | 5.6                   |
| Z53RD391                   | UL          | 250                                               | 320                                | 390(351-429)                                 | 880                        | 650                                                    | 500                                        | 70000       | 50000        | 7100                               | 7.7                   | 5.8                   |
| Z53RD431                   | UL          | 275                                               | 350                                | 430(387-473)                                 | 950                        | 710                                                    | 500                                        | 70000       | 50000        | 6600                               | 7.9                   | 6.0                   |
| Z53RD471                   | UL          | 300                                               | 385                                | 470(423-517)                                 | 1000                       | 775                                                    | 500                                        | 70000       | 50000        | 5900                               | 8.1                   | 6.2                   |
| Z53RD511                   | UL          | 320                                               | 415                                | 510(459-561)                                 | 1100                       | 845                                                    | 500                                        | 70000       | 50000        | 5700                               | 8.4                   | 6.5                   |
| Z53RD561                   | UL          | 350                                               | 460                                | 560(504-616)                                 | 1200                       | 875                                                    | 500                                        | 70000       | 50000        | 5000                               | 8.7                   | 6.8                   |
| Z53RD621                   | UL          | 385                                               | 505                                | 620(558-682)                                 | 1300                       | 1025                                                   | 500                                        | 70000       | 50000        | 4600                               | 9.0                   | 7.1                   |
| Z53RD681                   | UL          | 420                                               | 560                                | 680(612-748)                                 | 1500                       | 1120                                                   | 500                                        | 70000       | 50000        | 4400                               | 9.4                   | 7.5                   |
| Z53RD751                   | UL          | 460                                               | 615                                | 750(675-825)                                 | 1600                       | 1240                                                   | 500                                        | 70000       | 50000        | 3900                               | 9.8                   | 7.9                   |
| Z53RD781                   | UL          | 485                                               | 640                                | 780(702-858)                                 | 1650                       | 1290                                                   | 500                                        | 70000       | 50000        | 3800                               | 10.0                  | 8.0                   |
| Z53RD821                   | UL          | 510                                               | 670                                | 820(738-902)                                 | 1800                       | 1355                                                   | 500                                        | 70000       | 50000        | 3500                               | 10.2                  | 8.3                   |
| Z53RD911                   | UL          | 550                                               | 745                                | 910(819-1001)                                | 2000                       | 1500                                                   | 500                                        | 70000       | 50000        | 3300                               | 10.7                  | 8.8                   |
| Z53RD951                   | UL          | 575                                               | 765                                | 950(855-1045)                                | 2100                       | 1570                                                   | 500                                        | 70000       | 50000        | 3100                               | 11.0                  | 9.0                   |
| Z53RD102                   | UL          | 625                                               | 825                                | 1000(900-1100)                               | 2200                       | 1650                                                   | 500                                        | 70000       | 50000        | 2900                               | 11.2                  | 9.3                   |
| Z53RD112                   | UL          | 680                                               | 895                                | 1100(990-1210)                               | 2500                       | 1815                                                   | 500                                        | 70000       | 50000        | 2700                               | 11.7                  | 9.8                   |
| Z53RD122                   | UL          | 750                                               | 970                                | 1200(1062-1300)                              | 2600                       | 2100                                                   | 500                                        | 70000       | 50000        | 2400                               | 12.8                  | 10.9                  |
| Z53RD142                   | UL          | 880                                               | 1150                               | 1400(1245-1520)                              | 3200                       | 2290                                                   | 500                                        | 70000       | 50000        | 2100                               | 13.8                  | 11.9                  |
| Z53RD162                   | UL          | 1000                                              | 1200                               | 1600(1414-1728)                              | 3500                       | 2700                                                   | 500                                        | 70000       | 50000        | 1800                               | 14.9                  | 13.0                  |

Radial leaded MOVs having the Underwriters Laboratory Recognized Component Mark, conform to UL 1414, UL1449 edition 3, as listed on DTI UL file number E319342. Maximum Power Dissipation: 5 mm-0.1 watt; 7 mm-0.25 watt; 10 mm-0.4 watt; 14 mm-0.6 watt, 20 mm-1 watt.

Typical response time is less than 15 nanoseconds.

See page 57 for explanation of UL Surge Suppression Device Type Designations.

All devices listed are RoHS compliant.