

# New Jersey Semiconductor Products, Inc.

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**RATINGS AND CHARACTERISTICS TABLE**

| MODEL<br>NUMBER                 | MAXIMUM RATINGS (25°C)    |                           |                                  |                                  |                                     | CHARACTERISTICS                                              |                              |                                                                                         |                         |                                                  |
|---------------------------------|---------------------------|---------------------------|----------------------------------|----------------------------------|-------------------------------------|--------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------|
|                                 | CONTINUOUS                |                           | TRANSIENT                        |                                  |                                     | V <sub>NOM</sub><br>VARISTOR<br>PEAK<br>VOLTAGE @<br>1 mA AC |                              | MAXIMUM<br>CLAMPING<br>VOLTAGE,<br>V <sub>C</sub> @ TEST<br>CURRENT<br>(8 x 20 $\mu$ s) |                         | TYPICAL<br>CAPACI-<br>TANCE<br><br>f = 0.1-1 MHz |
|                                 | RMS<br>VOLTAGE            | DC<br>VOLTAGE             | ENERGY<br>(10 x<br>1000 $\mu$ s) | MAXIMUM<br>POWER<br>DISSIPATION* | PEAK<br>CURRENT<br>(8 x 20 $\mu$ s) |                                                              |                              |                                                                                         |                         |                                                  |
|                                 | V <sub>ACM</sub><br>VOLTS | V <sub>DCM</sub><br>VOLTS | W <sub>TM</sub><br>JOULES        | WATTS                            | I <sub>TM</sub><br>AMPERES          | MIN.<br>VOLTS                                                | MAX.<br>VOLTS                | V <sub>C</sub><br>VOLTS                                                                 | I <sub>p</sub><br>AMPS  | PICOFARADS                                       |
| V130PA 10A<br>20A<br>20B<br>20C | 130                       | 175                       | 30<br>50                         | 8<br>15                          | 4000<br>6000                        | 184                                                          | 254<br>254<br>254<br>230     | 360<br>360<br>340<br>325                                                                | 50<br>100<br>100<br>100 | 1800<br>2400                                     |
| V150PA 10A<br>20A<br>20B<br>20C | 150                       | 200                       | 30<br>50                         | 8<br>15                          | 4000<br>6000                        | 212                                                          | 301<br>301<br>301<br>255     | 420<br>420<br>395<br>360                                                                | 50<br>100<br>100<br>100 | 1500<br>2000                                     |
| V250PA 20A<br>40A<br>40B<br>40C | 250                       | 330                       | 50<br>90                         | 7<br>13                          | 4000<br>6000                        | 354                                                          | 472<br>472<br>472<br>428     | 675<br>675<br>675<br>620                                                                | 50<br>100<br>100<br>100 | 900<br>1200                                      |
| V275PA 20A<br>40A<br>40B<br>40C | 275                       | 369                       | 50<br>90                         | 7<br>13                          | 4000<br>6000                        | 389                                                          | 522<br>522<br>522<br>495     | 740<br>740<br>710<br>680                                                                | 50<br>100<br>100<br>100 | 800<br>1100                                      |
| V320PA 40A<br>40B<br>40C        | 320                       | 420                       | 100                              | 12                               | 6000                                | 462                                                          | 635<br>635<br>550            | 850<br>810<br>780                                                                       | 100<br>100<br>100       | 1000                                             |
| V420PA 20A<br>40A<br>40B<br>40C | 420                       | 560                       | 80<br>160                        | 5<br>10                          | 4000<br>6000                        | 610                                                          | 800<br>800<br>800<br>752     | 1160<br>1160<br>1120<br>1020                                                            | 50<br>100<br>100<br>100 | 900<br>1200                                      |
| V460PA 20A<br>40A<br>40B<br>40C | 460                       | 612                       | 90<br>170                        | 5<br>10                          | 4000<br>6000                        | 640                                                          | 878<br>878<br>878<br>800     | 1280<br>1280<br>1240<br>1160                                                            | 50<br>100<br>100<br>100 | 800<br>1100                                      |
| V480PA 40A<br>80A<br>80B<br>80C | 480                       | 640                       | 100<br>180                       | 5<br>10                          | 4000<br>6000                        | 670                                                          | 914<br>918<br>918<br>878     | 1280<br>1280<br>1240<br>1160                                                            | 50<br>100<br>100<br>100 | 800<br>1100                                      |
| V510PA 40A<br>80A<br>80B<br>80C | 510                       | 675                       | 100<br>180                       | 5<br>10                          | 4000<br>6000                        | 735                                                          | 970<br>970<br>970<br>914     | 1410<br>1410<br>1350<br>1280                                                            | 50<br>100<br>100<br>100 | 750<br>1000                                      |
| V550PA 40A<br>80A<br>80B<br>80C | 550                       | 700                       | 120<br>210                       | 5<br>9                           | 4000<br>6000                        | 775                                                          | 1115<br>1115<br>1115<br>1010 | 1560<br>1560<br>1500<br>1410                                                            | 50<br>100<br>100<br>100 | 700<br>900                                       |
| V575PA 40A<br>80A<br>80B<br>80C | 575                       | 730                       | 120<br>210                       | 5<br>9                           | 4000<br>6000                        | 805                                                          | 1115<br>1115<br>1115<br>1010 | 1560<br>1560<br>1500<br>1410                                                            | 50<br>100<br>100<br>100 | 700<br>900                                       |
| V660PA 100A<br>B<br>C           | 660                       | 850                       | 250                              | 9                                | 6000                                | 940                                                          | 1265<br>1265<br>1100         | 1820<br>1730<br>1650                                                                    | 100<br>100<br>100       | 800                                              |

\*Note: Average power dissipation of transients rated for up to 5-minute periods on a non-repetitive basis.

**PA Series**

Technical drawing showing three views of the PA Series connector with dimensions in inches:

- Top View:** Shows a rectangular base with a central circular feature. Dimensions include a total width of 2.55, a distance of 2.00 from the left edge to the center of the circular feature, a distance of .360 from the center of the circular feature to the right edge of the rectangular base, and a distance of .30 from the right edge of the rectangular base to the center of the circular feature. The circular feature has a diameter of .500 and a thickness of .250.
- Side View:** Shows the profile of the connector. Dimensions include a total height of 1.17 Max. and a base thickness of .548.
- Detail A-A:** A cross-sectional view of the circular feature. It shows a central hole with a diameter of .11 Dia. and a thickness of .160. The outer diameter of the circular feature is .256.

**Detail A-A**

**Inches**

