## AXIALLEADED, HERMETICALLY SEALED, 500 WATT TRANSIENT VOLTAGE SUPPRESSORS

- Low dynamic impedance
- Hermetically sealed in Metoxilite fused metal oxide
- 500 Watt peak pulse power
- 1.5 Watt continuous
- Available in JAN, JANTX, JANTXV and JANS versions


## QUICK REFERENCE DATA

- $V_{B R} \operatorname{MIN}=6.12-180 \mathrm{~V}$
- $I_{(B R)}=5-175 \mathrm{~mA}$
- $V_{\text {RWM }}=5.2-152 \mathrm{~V}$
- $V_{C}$ max $=11-273 V$

ELECTRIAL SPECIFICATIONS (@ $25^{\circ} \mathrm{C}$ UNLESS OTHERWISE SPECIFIED)

| Device Type | Minimum Breakdown Voltage $V_{(B R)}$ @ (BR) | $\begin{gathered} \text { Test } \\ \text { Current } \\ \mathbf{I}_{(\mathrm{BR})} \end{gathered}$ | Working Pk. Reverse Voltage VRWM |  | Maximum Clamping Voltage $\mathrm{V}_{\mathrm{C}} @ \mathrm{l}_{\mathrm{p}}$ | Maximum Pk. Pulse Current Ip $\mathrm{t}_{\mathrm{T}}=8.3 \mathrm{mS}$ | Temp. Coeff of $V_{(\mathrm{ER})}$ $\alpha_{V Z}$ | Maximum Reverse Current $\mathrm{I}_{\mathrm{R}} @ 150^{\circ} \mathrm{C}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Volts | mA | Volts | $\mu \mathrm{A}$ | Volts | Amps | \% $/{ }^{\circ} \mathrm{C}$ | $\mu \mathrm{A}$ |
| 1N6102 | 6.12 | 175 | 5.2 | 100 | 11.0 | 45.4 | . 05 | 4000 |
| 1N6103 | 6.75 | 175 | 5.7 | 50 | 11.8 | 42.4 | . 06 | 750 |
| 1N6104 | 7.38 | 150 | 6.2 | 20 | 12.7 | 39.4 | . 06 | 500 |
| 1N6105 | 8.19 | 150 | 6.9 | 20 | 14.0 | 35.7 | . 06 | 300 |
| 1N6106 | 9.00 | 125 | 7.6 | 20 | 15.2 | 32.9 | . 07 | 200 |
| 1N6107 | 9.90 | 125 | 8.4 | 20 | 16.3 | 30.7 | . 07 | 200 |
| 1N6108 | 10.8 | 100 | 9.1 | 20 | 17.7 | 28.2 | . 07 | 150 |
| 1N6109 | 11.7 | 100 | 9.9 | 20 | 19.0 | 26.3 | . 08 | 150 |
| 1N6110 | 13.5 | 75 | 11.4 | 20 | 21.9 | 22.8 | . 08 | 100 |
| 1N6111 | 14.4 | 75 | 12.2 | 20 | 23.4 | 21.4 | . 08 | 100 |
| 1N6112 | 16.2 | 65 | 13.7 | 1 | 26.3 | 19.0 | . 085 | 100 |
| 1N6113 | 18.0 | 65 | 15.2 | 1 | 29.0 | 17.2 | . 085 | 100 |
| 1N6114 | 19.8 | 50 | 16.7 | 1 | 31.9 | 15.7 | . 085 | 100 |
| 1N6115 | 21.6 | 50 | 18.2 | 1 | 34.8 | 14.4 | . 09 | 100 |
| 1N6116 | 24.3 | 50 | 20.6 | 1 | 39.2 | 12.8 | . 09 | 100 |
| 1N6117 | 27.0 | 40 | 22.8 | 1 | 43.6 | 11.5 | . 09 | 100 |
| 1N6118 | 29.7 | 40 | 25.1 | 1 | 47.9 | 10.4 | . 095 | 100 |
| 1N6119 | 32.4 | 30 | 27.4 | 1 | 52.3 | 9.6 | . 095 | 100 |
| 1N6120 | 35.1 | 30 | 29.7 | 1 | 56.2 | 8.9 | . 095 | 100 |
| 1N6121 | 38.7 | 30 | 32.7 | 1 | 62.0 | 8.1 | . 095 | 100 |
| 1N6122 | 42.3 | 25 | 35.8 | 1 | 67.7 | 7.4 | . 095 | 100 |
| 1N6123 | 45.9 | 25 | 38.8 | 1 | 73.5 | 6.8 | . 095 | 100 |
| 1N6124 | 50.4 | 20 | 42.6 | 1 | 80.7 | 6.2 | . 095 | 100 |
| 1N6125 | 55.8 | 20 | 47.1 | 1 | 89.3 | 5.6 | . 100 | 100 |
| 1N6126 | 61.2 | 20 | 51.7 | 1 | 98.0 | 5.1 | . 100 | 100 |
| 1N6127 | 67.5 | 20 | 56.0 | 1 | 108.1 | 4.6 | . 100 | 100 |
| 1N6128 | 73.8 | 15 | 62.2 | 1 | 118.2 | 4.2 | . 100 | 100 |
| 1N6129 | 81.9 | 15 | 69.2 | 1 | 131.1 | 3.8 | . 100 | 100 |
| 1N6130 | 90.0 | 12 | 76.0 | 1 | 144.1 | 3.5 | . 100 | 100 |
| 1N6131 | 99.0 | 12 | 83.6 | 1 | 158.5 | 3.2 | . 100 | 100 |
| 1N6132 | 108.0 | 10 | 91.2 | 1 | 172.9 | 2.9 | . 100 | 100 |
| 1N6133 | 117.0 | 10 | 98.8 | 1 | 187.3 | 2.7 | . 100 | 100 |
| 1N6134 | 135.0 | 8 | 114.0 | 1 | 216.2 | 2.3 | . 100 | 100 |
| 1N6135 | 144.0 | 8 | 121.6 | 1 | 228.8 | 2.2 | . 100 | 100 |
| 1N6136 | 162.0 | 5 | 136.8 | 1 | 257.4 | 1.9 | . 100 | 100 |
| 1N6137 | 180.0 | 5 | 152.0 | 1 | 286.0 | 1.7 | . 100 | 100 |

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These parts are qualified to MIL-PRF-19500/516 and are preferred parts as listed in MIL-STD-701
They can be supplied fully released as JAN, JANTX, JANTXV and JANS versions.

* Parts listed are $10 \%$ tolerance. $5 \%$ tolerance can be ordered by placing an "A" suffix on part numbers, eg. IN6110A


OPERATING TEMP $-65^{\circ} \mathrm{C}$ to $+175^{\circ} \mathrm{C}$
STORAGE TEMP


Figure 1. Maximum power versus lead temperature.


Fig 2. Typical junction capacitance versus reverse voltage.

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Fig 3. Steady state derating characteristic for free air mounting


Fig 5. Pulse waveform


Fig 4. Peak pulse power versus pulse time.


Fig 6. Pulse derating curve

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