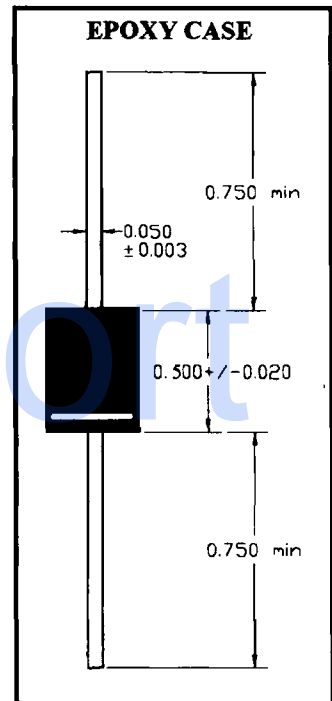
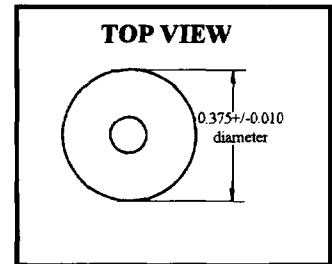


15KP17A
thru
15KP280A

15,000 WATT TRANSIENT VOLTAGE SUPPRESSOR

AVAILABLE IN VOLTAGES FROM 19.9V THRU 327.5V

The NES 15KP series of transient suppressor diodes are designed to protect electronic equipment from failure due to high voltage transients. Because of their special internal design, rapid junction cooling under pulse power stress is possible. This characteristic makes these devices especially useful in the protection of airborne, telephone and other industrial types of equipment normally subject to large voltage transients. As protective devices they are intended to be used as voltage clamps under sustained voltage stress until normal fusing devices open the circuits. The normal failure mode under sustained current overload is short circuit.



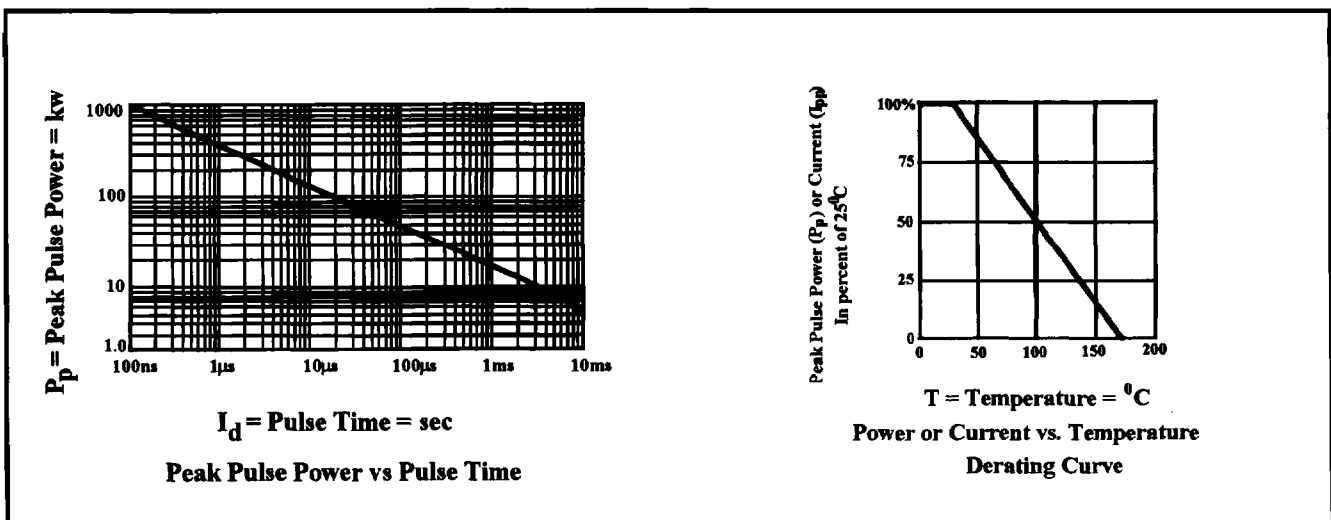
MAXIMUM RATINGS:

- 15,000 Watts of Peak Pulse Power Dissipation @ 25°C
- Voltage clamping (0 volts to BV min): $< 1 \times 10^{-12}$ seconds
- Operating and Storage Temperature: -35°C to +150°C
- Steady State Power Dissipation: 7.0 watts @ T_A = 25°C
- Repetition Rate (Duty Cycle): 0.05%

FEATURES:

- EPOXY CASE
- MATTE TIN PLATED COPPER LEADS
- POLARITY BAND DENOTES CATHODE END
- MONOPOLAR DESIGN
- CUSTOM DESIGNS AVAILABLE*

*CONSULT FACTORY



NEW ENGLAND SEMICONDUCTOR

15KP17A thru 15KP280A

| Part Number* | Reverse Stand-off voltage V_R volts | Breakdown Voltage BV @ volts | I_T mA | Maximum clamping volt @ I_{PP} (1mSec) V_c Volts | Maximum Reverse Leakage $I_R @ V_R$ μA | Maximum Peak Pulse Current I_{PP} A | Max. Volt. Var of BV mV/ C |
|--------------|---------------------------------------|------------------------------|----------|--|---|---------------------------------------|----------------------------|
| 15KP17A | 17 | 19.9 | 50 | 29.3 | 5000 | 512 | 17 |
| 15KP18A | 18 | 21.0 | 50 | 30.9 | 5000 | 485 | 18 |
| 15KP20A | 20 | 23.3 | 20 | 34.3 | 1500 | 437 | 21 |
| 15KP22A | 22 | 25.6 | 10 | 37.1 | 500 | 404 | 24 |
| 15KP24A | 24 | 28.0 | 5 | 40.7 | 150 | 369 | 27 |
| 15KP26A | 26 | 30.4 | 5 | 44.0 | 50 | 341 | 29 |
| 15KP28A | 28 | 32.7 | 5 | 47.5 | 25 | 316 | 31 |
| 15KP30A | 30 | 35.0 | 5 | 50.7 | 15 | 296 | 34 |
| 15KP33A | 33 | 38.6 | 5 | 54.8 | 10 | 274 | 38 |
| 15KP36A | 36 | 42.1 | 5 | 59.7 | 10 | 251 | 41 |
| 15KP40A | 40 | 46.7 | 5 | 65.8 | 10 | 228 | 46 |
| 15KP43A | 43 | 50.3 | 5 | 69.7 | 10 | 215 | 50 |
| 15KP46A | 46 | 52.6 | 5 | 73.0 | 10 | 205 | 52 |
| 15KP48A | 48 | 56.1 | 5 | 77.7 | 10 | 193 | 56 |
| 15KP51A | 51 | 60.1 | 5 | 82.8 | 10 | 181 | 60 |
| 15KP54A | 54 | 63.1 | 5 | 87.5 | 10 | 171 | 63 |
| 15KP58A | 58 | 67.8 | 5 | 94.0 | 10 | 160 | 68 |
| 15KP60A | 60 | 70.2 | 5 | 97.3 | 10 | 154 | 71 |
| 15KP64A | 64 | 74.8 | 5 | 104.0 | 10 | 144 | 76 |
| 15KP70A | 70 | 81.9 | 5 | 114.0 | 10 | 132 | 83 |
| 15KP75A | 75 | 87.7 | 5 | 122.0 | 10 | 123 | 89 |
| 15KP78A | 78 | 91.2 | 5 | 126.0 | 10 | 119 | 93 |
| 15KP85A | 85 | 99.2 | 5 | 137.0 | 10 | 109 | 102 |
| 15KP90A | 90 | 105.5 | 5 | 146.0 | 10 | 103 | 109 |
| 15KP100A | 100 | 117.0 | 5 | 162.0 | 10 | 93 | 121 |
| 15KP110A | 110 | 128.5 | 5 | 178.0 | 10 | 84 | 133 |
| 15KP120A | 120 | 140.0 | 5 | 193.0 | 10 | 78 | 145 |
| 15KP130A | 130 | 151.5 | 5 | 209.0 | 10 | 72 | 157 |
| 15KP150A | 150 | 176.0 | 5 | 243.0 | 10 | 62 | 183 |
| 15KP160A | 160 | 187.5 | 5 | 259.0 | 10 | 58 | 195 |
| 15KP170A | 170 | 199.0 | 5 | 275.0 | 10 | 55 | 207 |
| 15KP180A | 180 | 210.5 | 5 | 291.0 | 10 | 52 | 219 |
| 15KP200A | 200 | 233.5 | 5 | 322.0 | 10 | 47 | 243 |
| 15KP220A | 220 | 258.0 | 5 | 356.0 | 10 | 42 | 269 |
| 15KP240A | 240 | 281.0 | 5 | 388.0 | 10 | 39 | 293 |
| 15KP260A | 260 | 304.0 | 5 | 419.0 | 10 | 36 | 317 |
| 15KP280A | 280 | 327.5 | 5 | 452.0 | 10 | 33 | 342 |

*Suffix 'A' indicates $\pm 5\%$ tolerance
No Suffix indicates $\pm 10\%$ tolerance