



High-reliability discrete products
and engineering services since 1977

1N6461-1N6468 1N6469-1N6476

TRANSIENT VOLTAGE SUPPRESSORS

FEATURES:

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number
- Available Non-RoHS (standard) or RoHS compliant (add PBF suffix)

MAXIMUM RATINGS

| | |
|--------------------------|----------------------------|
| Operating Temperature: | -65°C to +175°C |
| Storage Temperature: | -65°C to +175°C |
| Surge Power: | 500W & 1500W |
| Power @ T _A : | 25° (3/8) 2.5W 500W Type |
| Power @ T _L : | 50°C (3/8) 5.0W 1500W Type |

ELECTRICAL CHARACTERISTICS UNIDIRECTIONAL (T_A = 25°C)

| Type | | Breakdown Voltage V _(BR) Min. | Test Current I _T | | Working Peak Voltage V _{WM} | Max. Leakage Current I _D | | Max. Clamping Voltage V _C | Max. Peak Pulse Current (I _{PP}) | | Max. Temp Coef. Of V _(BR) |
|---------------|--------|---|--------------------------------|------|---|--|------|---|---|-------|---|
| 500W | 1500W | | Vdc | mAdc | | Vdc | μAdc | | μAdc | V(pk) | |
| 1N6461 | 1N6469 | 5.6 | 25 | 50 | 5 | 3000 | 1500 | 9.0 | 56 | 167 | 0.04 |
| 1N6462 | 1N6470 | 6.5 | 20 | 50 | 6 | 2500 | 1000 | 11.0 | 46 | 137 | 0.04 |
| 1N6463 | 1N6471 | 13.6 | 5 | 10 | 12 | 500 | 20 | 22.6 | 22 | 66 | 0.05 |
| 1N6464 | 1N6472 | 16.4 | 5 | 10 | 15 | 500 | 10 | 26.5 | 19 | 57 | 0.06 |
| 1N6465 | 1N6473 | 27.0 | 2 | 5 | 24 | 50 | 5 | 41.4 | 12 | 36.5 | .084 |
| 1N6466 | 1N6474 | 33.0 | 1 | 1 | 30.5 | 3 | 5 | 47.5 | 11 | 32 | .093 |
| 1N6467 | 1N6475 | 43.7 | 1 | 1 | 40.3 | 2 | 5 | 63.5 | 8 | 24 | .094 |
| 1N6468 | 1N6476 | 54.0 | 1 | 1 | 51.6 | 2 | 5 | 78.5 | 6 | 19 | .096 |
| Notes: | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 |

Note 1: Applies to both 500W and 1500W series.

Note 2: Applies to only 500W series.

Note 3: Applies to 1500W series.



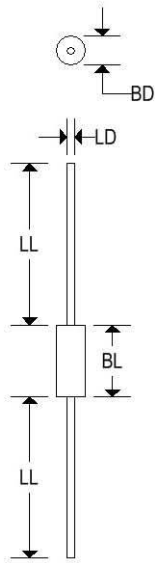
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MECHANICAL CHARACTERISTICS

| | |
|-----------------|------------------------|
| Case | Digi D (1N6461-1N6468) |
| Marking | Alpha-numeric |
| Polarity | Cathode band |

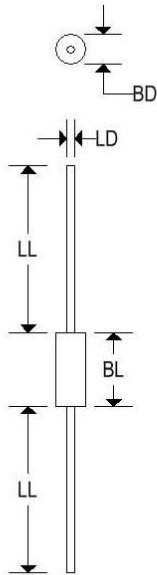


| | Digi D | | | |
|----|--------|-------|-------------|--------|
| | Inches | | Millimeters | |
| | Min | Max | Min | Max |
| BD | - | 0.135 | - | 3.420 |
| BL | - | 0.240 | - | 6.096 |
| LD | 0.038 | 0.042 | 0.965 | 1.067 |
| LL | - | 1.000 | - | 25.400 |

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TRANSIENT VOLTAGE SUPPRESSORS

| | |
|-----------------|------------------------|
| Case | Digi H (1N6469-1N6476) |
| Marking | Alpha-numeric |
| Polarity | Cathode band |



| | Digi H | | | |
|----|--------|-------|-------------|--------|
| | Inches | | Millimeters | |
| | Min | Max | Min | Max |
| BD | - | 0.185 | - | 4.699 |
| BL | 0.150 | 0.195 | 3.810 | 4.953 |
| LD | 0.037 | 0.042 | 0.940 | 1.070 |
| LL | 0.900 | 1.300 | 22.860 | 33.020 |