



Micro Commercial Components

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**MLV3225L180PT
THRU
MLV3225A121PT**

Features

- Monolithic Multilayer Construction with and 3225 Model Sizes
- Available in Tape and Reel or Bulk Pack
- Wide Operating Voltage Range $V_{DC}=18V$ to 120V
- Excellent Nonlinear Voltage-Current Characteristics with Low Clamping Voltage and Large Surge Current/Energy Handing Capabilities at Small Size

**Normal Type Multilayer
Varistor**

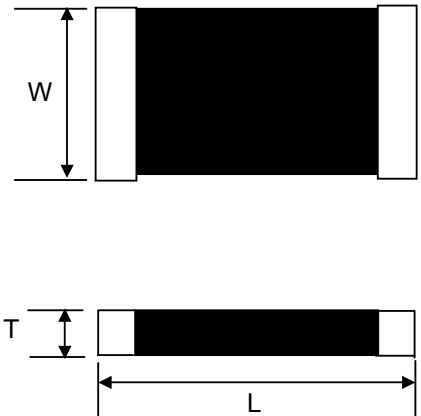
Maximum Ratings

Reference Data

| Parameter | Symbol | Value | Unit |
|---|------------|------------|-------------|
| Response time | T_{rise} | <1 | ns |
| Leakage current at $V_V \times 80\%$ | I_{VV} | <50 | μA |
| Leakage current at $V_V \times 80\%$ (After reality Test) | I_{VVA} | <200 | μA |
| Operating ambient temperature | | -55 ~ +85 | $^{\circ}C$ |
| Storage temperature | | -55 ~ +125 | $^{\circ}C$ |
| Reflow solder profile temperature (Recommend) | | 225 | $^{\circ}C$ |

Other Data

| | |
|------------------------|-----------------|
| Body | ZnO |
| End termination | Ag/Sn/Ni plated |
| Packaging | Reel |
| Complies with Standard | IEC61000-4-5 |
| Procedure | Single |
| Marking | None |



| Size | DIM | INCHES | | MM | |
|------|-----|--------|-------|------|------|
| | | MIN | MAX | MIN | MAX |
| 3225 | L | 0.118 | 0.134 | 3.00 | 3.40 |
| | W | 0.091 | 0.106 | 2.30 | 2.70 |
| | T | --- | 0.059 | --- | 1.50 |

MLV3225L180PT THRU MLV3225A121PT



Device Ratings and Specifications

| Part Number | Maximum Ratings (125°C) | | | | | Specifications(25°C) | |
|---------------|------------------------------------|-----------------|---|--|--|----------------------------|----------------------------|
| | Maximum Continuous Working Voltage | | Maximum Non-Repetitive Surge Current (8/20us) | Maximum Non-Repetitive Surge Energy (10/1000 us) | Maximum Clamping Voltage at Specified Current @ 10A (8/20us) | Nominal Voltage at 1mA(DC) | Typical Capacitance @ 1MHz |
| | $V_{M(DC)}$ (V) | $V_{M(AC)}$ (V) | I_{TM} (A) | W_{TM} (J) | V_C (V) | $V_{N(DC)}$ (V) | C (pF) |
| MLV3225L180PT | 18 | 14 | 200 | 1.5 | 40 | 22.0~28.0 | 1660 |
| MLV3225L300PT | 30 | 25 | 200 | 0.9 | 65 | 35.0~43.0 | 630 |
| MLV3225L450PT | 45 | 35 | 220 | 0.9 | 90 | 50.0~61.0 | 315 |
| MLV3225A180PT | 18 | 14 | 400 | 1.5 | 40 | 22.0~28.0 | 2800 |
| MLV3225A220PT | 22 | 17 | 300 | 1.7 | 44 | 24.0~30.0 | 2050 |
| MLV3225A260PT | 26 | 20 | 300 | 1.9 | 54 | 29.0~38.0 | 1480 |
| MLV3225A300PT | 30 | 25 | 280 | 1.2 | 62 | 35.0~43.0 | 1150 |
| MLV3225A380PT | 38 | 30 | 250 | 2.0 | 78 | 42.3~51.7 | 950 |
| MLV3225A450PT | 45 | 35 | 250 | 2.0 | 90 | 50.0~61.0 | 715 |
| MLV3225A560PT | 56 | 40 | 250 | 2.3 | 110 | 61.2~74.0 | 500 |
| MLV3225A680PT | 68 | 50 | 250 | 1.5 | 135 | 74.0~90.0 | 370 |
| MLV3225A850PT | 85 | 60 | 250 | 1.5 | 165 | 91.0~115.0 | 200 |
| MLV3225A121PT | 120 | 107 | 125 | 1.5 | 230 | 135.0~165.0 | 65 |