

# VC120618D400TP

(1206, 18Vdc, 0.4J, 150A, 900pF, Sn Term)

Multilayer Chip Varistor Datasheet

## BASIC SPECIFICATION

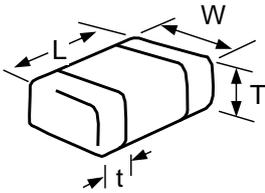
|                       |                  |
|-----------------------|------------------|
| Case Size [EIA]       | 1206             |
| Operating Temperature | -55 to +125°C    |
| Grade                 | General          |
| Termination           | Sn               |
| RoHS                  | Yes              |
| MSL Level             | 1                |
| Packaging             | T&R 13in (330mm) |
| Packaging Qty         | 10000 pcs        |



## ELECTRICAL CHARACTERISTICS

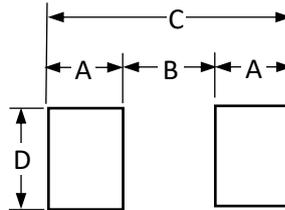
|   |            |
|---|------------|
| DC Working Voltage                        | 18 Vdc     |
| AC Working Voltage                        | 13 Vac     |
| Breakdown Voltage [1mA DC]                | 25.5±10% V |
| Clamping Voltage [8x20µs]                 | 42V @ 1A   |
| Max Leakage Current [Vdc, 25°C]           | 10 µA      |
| Transient Energy [10x1000µs]              | 0.4 J      |
| Peak Power [10x1000µs]                    | 300 W      |
| Peak Current Rating [8x20µs]              | 150 A      |
| Typical Capacitance [1kHz, 0.5Vrms, 25°C] | 900 pF     |
| Capacitance Tolerance                     | +100/-50%  |

## DIMENSIONS



|   | mm        | inches      |
|---|-----------|-------------|
| L | 3.20±0.20 | 0.126±0.008 |
| W | 1.60±0.20 | 0.063±0.008 |
| T | 1.02 max  | 0.040 max   |
| t | 0.94 max  | 0.037 max   |

## SOLDERING PAD



|   | mm   | inches |
|---|------|--------|
| A | 1.02 | 0.04   |
| B | 2.03 | 0.08   |
| C | 4.06 | 0.16   |
| D | 1.65 | 0.065  |

## HOW TO ORDER

|               |             |                 |               |                  |  |             |
|---------------|-------------|-----------------|---------------|------------------|--|-------------|
| <b>VC</b>     | <b>1206</b> | <b>18</b>       | <b>D</b>      | <b>400</b>       | <b>T</b>   | <b>P</b>    |
| Varistor Chip | Case Size   | Working Voltage | Energy Rating | Clamping Voltage | Packaging  | Termination |
|               |             | 18 = 18Vdc      | D = 0.4J      | 400 = 42V        | D = 7" reel (1,000pcs)<br>R = 7" reel (4,000pcs)<br>T = 13" reel (10,000pcs) | P = Sn      |

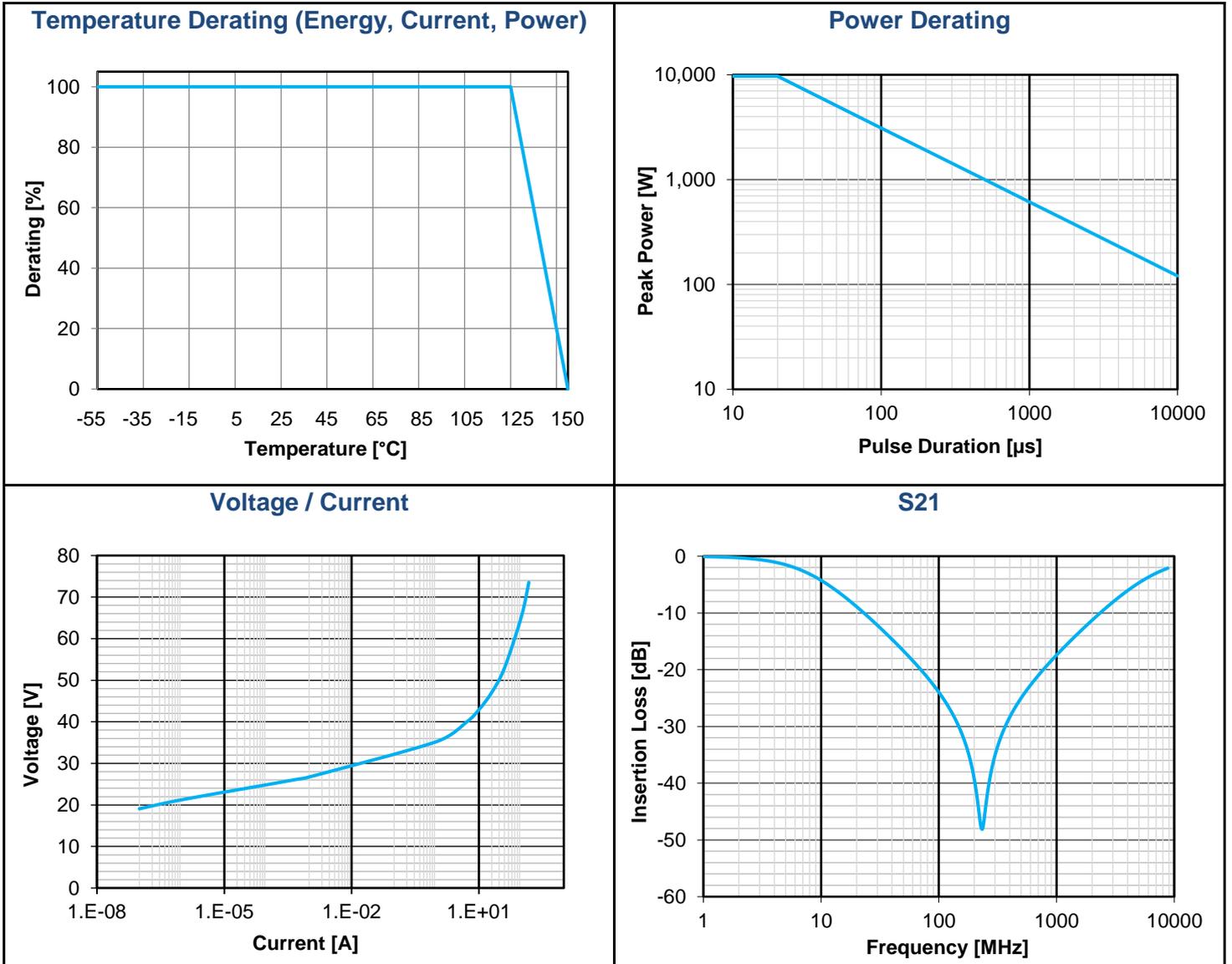
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## TYPICAL CHARACTERISTICS



NOTICE: Specifications are subject to change without notice. All statements, information and data given herein are believed to be accurate and reliable, but are presented without guarantee or responsibility of any kind, expressed or implied. Specifications are typical and may not apply to all applications.