

**Surface Mount Varactor
2043 SERIES
HYPERABRUPT TUNING DIODES
UHF + VHF + L BAND**

- Superior Performance in Highly Stable Oscillator Designs
- Uniform Capacitance / Temperature Coefficient
- Highly Reproducible Ion Implanted Structure

| PART NUMBER ◆◆◆ | C _T @ 1.0 V (pF) | | C _T @ 1V / C _T @ 3.0V RATIO | | C _T @ 1V / C _T @ 6.0V RATIO | | Rs @ 3.0V 500 MHz MAX | AVAILABLE IN THE FOLLOWING PACKAGES |
|--------------------|--------------------------------|-------|--|-----|--|-----|-----------------------------|---|
| | MIN | MAX | MIN | MAX | MIN | MAX | | |
| SMV20432 | 2.34 | 2.86 | 1.5 | 1.9 | 2.6 | 3.3 | 1.50 Ω | -01, -06, -07, -08, -09, -10 |
| SMV20433 | 3.00 | 3.60 | 1.5 | 1.9 | 2.6 | 3.3 | 1.20 Ω | -01, -06, -07, -08, -09, -10 |
| SMV20434 | 5.85 | 7.15 | 1.6 | 2.0 | 2.8 | 3.4 | 0.80 Ω | -01, -06, -07, -08, -09, -10 |
| SMV20435 | 10.35 | 12.65 | 1.6 | 2.0 | 2.9 | 3.4 | 0.60 Ω | -01, -06, -07, -08, -09, -10 |
| SMV20436 | 15.50 | 18.50 | 1.6 | 2.0 | 3.0 | 3.5 | 0.50 Ω | -01, -06, -07, -08, -09, -10 |
| SMV20437 | 45.00 | 54.00 | 1.6 | 2.0 | 3.0 | 3.5 | 0.25 Ω | -01, -06, -07, -08, -09, -10 |

| | | |
|----------------------------------|---------------|----------------|
| Reverse Breakdown Voltage (VBR) | 10 μAdc | 15 Volt Min |
| Max Reverse Leakage Current (IR) | VR = 12 Volts | 20 nAdc |
| Device Dissipation (PD) | Ta = 25°C | 250 mW |
| Junction Temperature (TJ) | | 125°C |
| Operating Temperature (Topr) | | -55° to +125°C |
| Storage Temperature (Tstg) | | -65° to +150°C |

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Package Styles

Requires adding a dash number to the part number

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|----------------------|-----|
| SOT23 Single | -08 |
| SOT23 Common Anode | -09 |
| SOT23 Common Cathode | -10 |
| SOD323 | -06 |
| SOD523 (SC79, SC90) | -07 |
| CHIPS | -01 |