



**ULTRA-LOW LEAKAGE ABRUPT VARACTOR DIODES**  
**V907 - V900**  
**V907E - V900E**

| PART NUMBER | CAPACITANCE @ 4 Vdc 1 MHz (pF) | TYP. CAPACITANCE RATIO C•0.5V / C•MWV | MAX WORKING VOLTAGE (Vdc) | MIN BREAKDOWN VOLTAGE Ir = 100µA (Vdc) |
|-------------|--------------------------------|---------------------------------------|---------------------------|--|
| V907        | 7                              | 4.1                                   | 25                        | 28                                     |
| V910        | 10                             | 4.1                                   | 25                        | 28                                     |
| V912        | 12                             | 4.2                                   | 25                        | 28                                     |
| V915        | 15                             | 4.2                                   | 25                        | 28                                     |
| V920        | 20                             | 3.9                                   | 20                        | 22                                     |
| V927        | 27                             | 4.0                                   | 20                        | 22                                     |
| V933        | 33                             | 4.1                                   | 20                        | 22                                     |
| V939        | 39                             | 4.1                                   | 20                        | 22                                     |
| V947        | 47                             | 3.9                                   | 20                        | 22                                     |
| V956        | 56                             | 3.5                                   | 15                        | 17                                     |
| V968        | 68                             | 3.5                                   | 15                        | 17                                     |
| V982        | 82                             | 3.5                                   | 15                        | 17                                     |
| V900        | 100                            | 3.5                                   | 15                        | 17                                     |
| V907E       | 7                              | 6.9                                   | 100                       | 110                                    |
| V910E       | 10                             | 6.9                                   | 100                       | 110                                    |
| V912E       | 12                             | 7.5                                   | 100                       | 110                                    |
| V915E       | 15                             | 7.5                                   | 100                       | 110                                    |
| V920E       | 20                             | 7.9                                   | 90                        | 99                                     |
| V927E       | 27                             | 7.4                                   | 65                        | 72                                     |
| V933E       | 33                             | 6.5                                   | 60                        | 66                                     |
| V939E       | 39                             | 6.3                                   | 55                        | 61                                     |
| V947E       | 47                             | 6.1                                   | 50                        | 55                                     |
| V956E       | 56                             | 5.7                                   | 40                        | 44                                     |
| V968E       | 68                             | 4.6                                   | 30                        | 33                                     |
| V982E       | 82                             | 4.0                                   | 20                        | 22                                     |
| V900E       | 100                            | 4.0                                   | 20                        | 22                                     |

|                              |                 |                 |
|------------------------------|-----------------|-----------------|
| Package Style                |                 | DO-7            |
| Forward Voltage Drop         | @ 100 mA        | 1.0 Vdc         |
| DC Power Dissipation         | @ Ta = 25° C    | 400 mW          |
| Max Reverse Current          | @ MWV           | 5 nA            |
| Operating Temperature (Topr) |                 | -65 to + 150° C |
| Storage Temperature (Tstg)   |                 | -65 to + 200° C |
| Capacitance Tolerance:       | Standard Device | ±20%            |