



**PLASTIC SURFACE MOUNT  
GENERAL PURPOSE ABRUPT VARACTOR DIODES  
SMV2101 - SMV2115**

| <b>PART<br/>NUMBER<br/>◆◆◆</b> | <b>CAPACITANCE<br/>@ 4 Vdc<br/>f = 1 MHz (pF)</b> | <b>MIN QUALITY FACTOR<br/>Q @ 4 Vdc<br/>f = 50 MHz</b> | <b>CAPACITANCE RATIO<br/>f = 1 MHz C•2V / C•30V<br/>MIN</b> | <b>AVAILABLE<br/>IN THE FOLLOWING<br/>PACKAGES</b> |
|--------------------------------|---------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------|
| SMV2101                        | 6.8                                               | 450                                                    | 2.5                                                         | -01, -08, -15                                      |
| SMV2102                        | 8.2                                               | 450                                                    | 2.5                                                         | -01, -08, -15                                      |
| SMV2103                        | 10.0                                              | 400                                                    | 2.5                                                         | -01, -08, -15                                      |
| SMV2104                        | 12.0                                              | 400                                                    | 2.5                                                         | -01, -08, -15                                      |
| SMV2105                        | 15.0                                              | 400                                                    | 2.5                                                         | -01, -08, -15                                      |
| SMV2106                        | 18.0                                              | 350                                                    | 2.5                                                         | -01, -08, -15                                      |
| SMV2107                        | 22.0                                              | 350                                                    | 2.5                                                         | -01, -08, -15                                      |
| SMV2108                        | 27.0                                              | 300                                                    | 2.5                                                         | -01, -08, -15                                      |
| SMV2109                        | 33.0                                              | 200                                                    | 2.5                                                         | -01, -08, -15                                      |
| SMV2110                        | 39.0                                              | 150                                                    | 2.5                                                         | -01, -08, -15                                      |
| SMV2111                        | 47.0                                              | 150                                                    | 2.5                                                         | -01, -09, -15                                      |
| SMV2112                        | 56.0                                              | 150                                                    | 2.6                                                         | -01, -09, -15                                      |
| SMV2113                        | 68.0                                              | 150                                                    | 2.6                                                         | -01, -09, -15                                      |
| SMV2114                        | 82.0                                              | 100                                                    | 2.6                                                         | -01, -09, -15                                      |
| SMV2115                        | 100.0                                             | 100                                                    | 2.6                                                         | -01, -09, -15                                      |

|                                       |              |                 |
|---------------------------------------|--------------|-----------------|
| DC Power Dissipation                  | @ Ta = 25°C  | 250 mW          |
| Reverse Breakdown Voltage             | @ 10µA       | 30 V Min        |
| Max Reverse Current (I <sub>R</sub> ) | @ Ta = 25° C | 0.1 µA @ 25 Vdc |
| Operating Temperature (Topr)          |              | -55 to + 125° C |
| Storage Temperature (Tstg)            |              | -65 to + 150° C |
| Capacitance Tolerance:                |              | ±10%            |

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**Package Styles**

Requires adding a dash suffix number to the part number

|                          |     |
|--------------------------|-----|
| SOT23 SINGLE             | -08 |
| SOT23 Common Anode       | -09 |
| TO-92 Two Terminal (TMV) | -15 |
| CHIPS                    | -01 |