

# BZV58CV2 THRU BZV58C200

## 5.0 WATT PLASTIC AXIAL PACK SILICON ZENER DIODES

### DO-201 AD

| TYPE      | Zener Voltage Range<br>V <sub>Z</sub> at I <sub>ZT</sub> | Maximum Zener Impedance<br>Z <sub>Zt</sub> at I <sub>ZT</sub> | Typical Temperature Coefficient | Test Current<br>I <sub>ZT</sub> | Max. Reverse Leakage Current<br>I <sub>R</sub> at V <sub>R</sub> |      | Max. Regulator Current<br>I <sub>ZM</sub> |
|-----------|--|---|---------------------------------|---------------------------------|--|------|---|
|           | (V)  | (Ω)   | (%/°C)                          | (mA)                            | (μA)   | (V)  | (mA)                                      |
| BZV58C8V2 | 7.7-8.7  | 1.5   | -0.048                          | 150                             | 10   | 3    | 570                                       |
| BZV58C9V1 | 8.5-9.6  | 2   | -0.051                          | 150                             | 10   | 6.6  | 520                                       |
| BZV58C10  | 9.4-10.6   | 2   | -0.055                          | 125                             | 10   | 7.6  | 470                                       |
| BZV58C11  | 0.4-11.6   | 2.5   | -0.060                          | 125                             | 5  | 8.3  | 430                                       |
| BZV58C12  | 1.4-12.7   | 2.5   | -0.065                          | 100                             | 1  | 9.9  | 350                                       |
| BZV58C13  | 2.4-14.1   | 2.5   | -0.065                          | 100                             | 1  | 9.9  | 350                                       |
| BZV58C15  | 3.8-15.8   | 2.5   | -0.070                          | 75                              | 1  | 11.4 | 320                                       |
| BZV58C16  | 5.3-17.1   | 2.5   | -0.070                          | 75                              | 1  | 12.2 | 290                                       |
| BZV58C18  | 6.8-19.1   | 2.5   | -0.075                          | 65                              | 1  | 13.7 | 260                                       |
| BZV58C20  | 8.8-21.2   | 3   | -0.075                          | 65                              | 1  | 15.2 | 235                                       |
| BZV58C22  | 0.8-23.3   | 3.5   | -0.080                          | 50                              | 1  | 16.7 | 215                                       |
| BZV58C24  | 2.8-25.6   | 3.5   | -0.080                          | 50                              | 1  | 18.2 | 195                                       |
| BZV58C27  | 5.1-28.9   | 5   | -0.085                          | 50                              | 1  | 20.5 | 170                                       |
| BZV58C30  | 28-32  | 8   | +0.085                          | 40                              | 1  | 22.8 | 155                                       |
| BZV58C33  | 31-35  | 10  | +0.085                          | 40                              | 1  | 25   | 140                                       |
| BZV58C36  | 34-38  | 11  | +0.085                          | 30                              | 1  | 27.4 | 130                                       |
| BZV58C39  | 37-41  | 14  | +0.090                          | 30                              | 1  | 29.6 | 120                                       |
| BZV58C43  | 40-46  | 20  | +0.090                          | 30                              | 1  | 32.7 | 110                                       |
| BZV58C47  | 44-50  | 25  | +0.090                          | 25                              | 1  | 35.7 | 100                                       |
| BZV58C51  | 48-54  | 27  | +0.090                          | 25                              | 1  | 38.8 | 92  |
| BZV58C56  | 52-60  | 35  | +0.090                          | 20                              | 1  | 42.5 | 83  |
| BZV58C62  | 58-66  | 42  | +0.090                          | 20                              | 1  | 47.1 | 75  |
| BZV58C68  | 64-72  | 44  | +0.090                          | 20                              | 1  | 51.7 | 69  |
| BZV58C75  | 70-79  | 45  | +0.090                          | 20                              | 1  | 57   | 63  |
| BZV58C82  | 77-87  | 65  | +0.090                          | 15                              | 1  | 62.4 | 57  |
| BZV58C91  | 85-96  | 75  | +0.090                          | 12                              | 1  | 76   | 47  |
| BZV58C100 | 94-106   | 90  | +0.090                          | 15                              | 1  | 62.4 | 57  |
| BZV58C110 | 104-116  | 125   | +0.095                          | 12                              | 1  | 83.5 | 43  |
| BZV58C120 | 114-127  | 170   | +0.095                          | 10                              | 1  | 91.2 | 39  |
| BZV58C130 | 124-141  | 190   | +0.095                          | 10                              | 1  | 98.8 | 35  |
| BZV58C150 | 138-156  | 330   | +0.095                          | 8                               | 1  | 114  | 32  |
| BZV58C160 | 153-171  | 350   | -0.095                          | 8                               | 1  | 122  | 29  |
| BZV58C180 | 168-191  | 430   | -0.095                          | 5                               | 1  | 137  | 26  |
| BZV58C200 | 188-212  | 480   | -0.100                          | 5                               | 1  | 152  | 23  |

STANDARD VOLTAGE TOLERANCE IS ±5% OTHER TOLERANCES AND NON-STANDARD ZENER VOLTAGES UPON REQUEST.

(1) TESTED WITH PULSES. PULSE TEST :  $t_P \leq 50 \text{ ms}$  ;  $\delta < 2\%$

