

## ZENER DIODES

### STANDARD ZENER DIODES

| Type | $V_{ZT}/I_{ZT}^*$ |     | $r_{ZT}/I_{ZT}^*$ | $I_{ZT}^*$ | $\alpha_{VZ}$                 | $I_R/V_R$   | $V_R$ | $I_{ZM}$<br>$T_{amb}$<br>70°C | Package |
|------|-------------------|-----|-------------------|------------|-------------------------------|-------------|-------|-------------------------------|---------|
|      | min               | max | max               | (mA)       | typ<br>(10 <sup>-4</sup> /°C) | max<br>(μA) | (V)   | (mA)                          |         |
|      | (V)               |     | (Ω)               |            |                               |             |       |                               |         |

**2 W /  $T_{amb} = 70^\circ\text{C}$   $T_j \text{ max} = 175^\circ\text{C}$** 
 **$P_S$  (10 ms) = 60 W  $V_F \leq 1.2 \text{ V}$  ( $T_{amb} = 25^\circ\text{C}$ ,  $I_F = 0.5 \text{ A}$ )**

|                |      |      |     |     |      |     |      |      |       |
|----------------|------|------|-----|-----|------|-----|------|------|-------|
| BZV 47 C 3V3   | 3.1  | 3.5  | 10  | 100 | -6.0 |     |      | 570  | F 126 |
| BZV 47 C 3V6   | 3.4  | 3.8  | 10  | 100 | -5.5 |     |      | 525  |       |
| BZV 47 C 3V9   | 3.7  | 4.1  | 7   | 100 | -5.0 |     |      | 485  |       |
| BZV 47 C 4V3   | 4.0  | 4.6  | 7   | 100 | -4.0 |     |      | 435  |       |
| BZV 47 C 4V7   | 4.4  | 5.0  | 7   | 100 | -2.0 |     |      | 400  |       |
| P BZV 47 C 5V1 | 4.8  | 5.4  | 5   | 100 | 1.0  |     |      | 370  |       |
| P BZV 47 C 5V6 | 5.2  | 6.0  | 2   | 100 | 2.5  | 5   | 1    | 330  |       |
| P BZV 47 C 6V2 | 5.8  | 6.6  | 2   | 100 | 3.2  | 5   | 1    | 300  |       |
| P BZV 47 C 6V8 | 6.4  | 7.2  | 2   | 100 | 4.0  | 5   | 1    | 275  |       |
| BZV 47 C 7V5   | 7.0  | 7.9  | 2   | 100 | 4.5  | 5   | 2    | 250  |       |
| BZV 47 C 8V2   | 7.7  | 8.7  | 2   | 100 | 4.8  | 5   | 3.5  | 230  |       |
| BZV 47 C 9V1   | 8.5  | 9.6  | 4   | 50  | 5.1  | 5   | 3.5  | 205  |       |
| BZV 47 C 10    | 9.4  | 10.6 | 4   | 50  | 5.5  | 5   | 7.6  | 185  |       |
| BZV 47 C 11    | 10.4 | 11.6 | 7   | 50  | 6.0  | 1   | 8.3  | 170  |       |
| P BZV 47 C 12  | 11.4 | 12.7 | 7   | 50  | 6.5  | 1   | 9.1  | 155  |       |
| P BZV 47 C 13  | 12.4 | 14.1 | 10  | 50  | 6.5  | 1   | 9.9  | 140  |       |
| P BZV 47 C 15  | 13.8 | 15.6 | 10  | 50  | 7.0  | 1   | 11.4 | 130  |       |
| BZV 47 C 16    | 15.3 | 17.1 | 15  | 25  | 7.0  | 0.5 | 12.2 | 115  |       |
| P BZV 47 C 18  | 16.8 | 19.1 | 15  | 25  | 7.5  | 0.5 | 13.7 | 105  |       |
| P BZV 47 C 20  | 18.8 | 21.2 | 15  | 25  | 7.5  | 0.5 | 15.2 | 94   |       |
| P BZV 47 C 22  | 20.8 | 23.3 | 15  | 25  | 8.0  | 0.5 | 16.7 | 86   |       |
| P BZV 47 C 24  | 22.8 | 25.6 | 15  | 25  | 8.0  | 0.5 | 18.2 | 78   |       |
| P BZV 47 C 27  | 25.1 | 28.9 | 15  | 25  | 8.5  | 0.5 | 20.5 | 69   |       |
| P BZV 47 C 30  | 28   | 32   | 15  | 25  | 8.5  | 0.5 | 22.8 | 62   |       |
| BZV 47 C 33    | 31   | 35   | 15  | 25  | 8.5  | 0.5 | 25   | 57   |       |
| P BZV 47 C 36  | 34   | 38   | 40  | 10  | 8.5  | 0.5 | 27.4 | 52   |       |
| BZV 47 C 39    | 37   | 41   | 40  | 10  | 9.0  | 0.5 | 29.6 | 48   |       |
| BZV 47 C 43    | 40   | 46   | 45  | 10  | 9.0  | 0.5 | 32.7 | 43   |       |
| P BZV 47 C 47  | 44   | 50   | 45  | 10  | 9.0  | 0.5 | 35.7 | 40   |       |
| BZV 47 C 51    | 48   | 54   | 60  | 10  | 9.0  | 0.5 | 38.8 | 37   |       |
| BZV 47 C 56    | 52   | 60   | 60  | 10  | 9.0  | 0.5 | 42.5 | 33   |       |
| P BZV 47 C 62  | 58   | 66   | 80  | 10  | 9.0  | 0.5 | 47.1 | 30   |       |
| P BZV 47 C 68  | 64   | 72   | 80  | 10  | 9.0  | 0.5 | 51.7 | 27   |       |
| BZV 47 C 75    | 70   | 79   | 100 | 10  | 9.0  | 0.5 | 57   | 25   |       |
| BZV 47 C 82    | 77   | 87   | 100 | 10  | 9.0  | 0.5 | 62.4 | 23   |       |
| BZV 47 C 91    | 85   | 96   | 200 | 5   | 9.0  | 0.5 | 69.2 | 20   |       |
| P BZV 47 C 100 | 94   | 106  | 200 | 5   | 9.0  | 0.5 | 76   | 18   |       |
| BZV 47 C 110   | 104  | 116  | 250 | 5   | 9.5  | 0.5 | 83.5 | 17   |       |
| BZV 47 C 120   | 114  | 127  | 250 | 5   | 9.5  | 0.5 | 91.2 | 15   |       |
| P BZV 47 C 130 | 124  | 141  | 300 | 5   | 9.5  | 0.5 | 98.2 | 14   |       |
| P BZV 47 C 150 | 138  | 156  | 300 | 5   | 9.5  | 0.5 | 114  | 12.8 |       |
| BZV 47 C 160   | 153  | 171  | 350 | 5   | 9.5  | 0.5 | 122  | 11.7 |       |
| BZV 47 C 180   | 168  | 191  | 350 | 5   | 9.5  | 0.5 | 137  | 10.5 |       |
| P BZV 47 C 200 | 188  | 212  | 350 | 5   | 9.5  | 0.5 | 152  | 9.4  |       |

\* Pulse test  $t_p \leq 50\text{ms}$   $\delta < 2\%$ .

The regulation voltages are defined according to the E 24 series.

P : Preferred voltages.