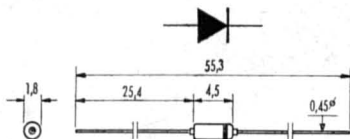


# Z - DIODES

Epi Z<sup>®</sup>

**BZX 46 C 2V7...**  
**...BZX 46 C 43**

Involucro  
Outline **JEDEC DO-35**



Misure in mm. - Peso 0,15 gr.  
Dimensions in mm. - Weight 0,15 gr.

Stampigliatura: anello dalla parte del  
catodo in chiaro:

**BZX**  
**46 C**

Marking : ring at cathode end in clear : .....

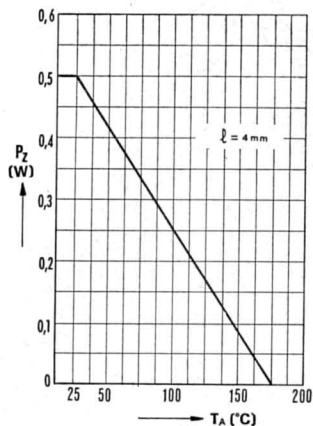
$P_Z \text{ max} = 500 \text{ mW}$   
 $V_{ZT} = 2,7 \text{ a } 43 \text{ V}$

## VALORI MASSIMI ASSOLUTI

Absolute maximum ratings

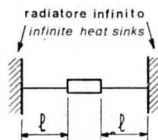
( $T_A = 25^\circ\text{C}$ )

|   |           |                    |                  |
|---|-----------|--------------------|------------------|
| Potenza dissipata (1)<br>Power dissipation  | $P_Z$     | 0,5                | W                |
| Potenza dissipata di picco non ripetitivo<br>$t_p = 10 \text{ ms}$<br>Non repetitive peak power dissipation | $P_{ZSM}$ | 1,25               | W                |
| Corrente continua permanente<br>Continuous reverse current (1)  | $I_Z$     | $\frac{500}{V_Z}$  | mA               |
| Corrente di picco non ripetitivo<br>Non repetitive peak reverse current                                     | $I_{ZSM}$ | $\frac{1250}{V_Z}$ | mA               |
| Temperatura di funzionamento (a dissipazione nulla)<br>Operating temperature (at zero dissipation)          | $T_{OP}$  | - 55<br>+ 175      | $^\circ\text{C}$ |
| Temperatura di immagazzinamento<br>Storage temperature  | $T_S$     | - 55<br>+ 175      | $^\circ\text{C}$ |



(1) Valori massimi definiti per  
 $l = 4 \text{ mm}$ .

Ratings defined for  $l = 4 \text{ mm}$ .



# BZX 46 C 2V7... ...BZX 46 C 43

## CARATTERISTICHE GENERALI

General characteristics

$T_A = 25\text{ C}$

|              | $V_Z^*$ |      |      | $I_{ZT}$<br>@ | $r_{ZT}$<br>( $\Omega$ )<br>max. | $I_{ZT}$<br>@ | $r_{ZK}$<br>( $\Omega$ )<br>max. | $I_{ZK}$<br>@ | $\alpha V_Z$ |       | $I_R$<br>@ | $V_R$<br>(V) |      |        |      |             |
|--------------|---------|------|------|---------------|----------------------------------|---------------|----------------------------------|---------------|--------------|-------|------------|--------------|------|--------|------|-------------|
|              | (V)     |      |      |               |                                  |               |                                  |               | (mA)         | (mA)  |            |              | (mA) | (%/°C) |      | ( $\mu A$ ) |
|              | min.    | nom. | max. |               |                                  |               |                                  |               |              |       |            |              |      | min.   | max. | max.        |
| BZX 46 C 2V7 | 2,5     | 2,7  | 2,9  | 20            | 30                               | 20            | 700                              | 1             | -0,08        | -0,06 | 75         | 1            |      |        |      |             |
| BZX 46 C 3V0 | 2,8     | 3,0  | 3,2  | 20            | 29                               | 20            | 700                              | 1             | -0,08        | -0,06 | 50         | 1            |      |        |      |             |
| BZX 46 C 3V3 | 3,1     | 3,3  | 3,5  | 20            | 28                               | 20            | 700                              | 1             | -0,08        | -0,05 | 10         | 1            |      |        |      |             |
| BZX 46 C 3V6 | 3,4     | 3,6  | 3,8  | 20            | 24                               | 20            | 700                              | 1             | -0,08        | -0,04 | 10         | 1            |      |        |      |             |
| BZX 46 C 3V9 | 3,7     | 3,9  | 4,1  | 20            | 23                               | 20            | 700                              | 1             | -0,07        | -0,03 | 10         | 1            |      |        |      |             |
| BZX 46 C 4V3 | 4,0     | 4,3  | 4,6  | 20            | 22                               | 20            | 700                              | 1             | -0,04        | -0,01 | 2          | 1            |      |        |      |             |
| BZX 46 C 4V7 | 4,4     | 4,7  | 5,0  | 20            | 19                               | 20            | 700                              | 1             | -0,03        | +0,01 | 2          | 1            |      |        |      |             |
| BZX 46 C 5V1 | 4,8     | 5,1  | 5,4  | 20            | 17                               | 20            | 700                              | 1             | -0,02        | +0,05 | 1          | 1            |      |        |      |             |
| BZX 46 C 5V6 | 5,2     | 5,6  | 6,0  | 20            | 11                               | 20            | 700                              | 1             | -0,01        | +0,06 | 1          | 2            |      |        |      |             |
| BZX 46 C 6V2 | 5,8     | 6,2  | 6,6  | 20            | 7,5                              | 20            | 700                              | 1             | 0            | +0,07 | 1          | 3            |      |        |      |             |
| BZX 46 C 6V8 | 6,4     | 6,8  | 7,2  | 18,5          | 4,5                              | 18,5          | 700                              | 1             | +0,01        | +0,08 | 5          | 4,8          |      |        |      |             |
| BZX 46 C 7V5 | 7,0     | 7,5  | 7,9  | 16,5          | 5,5                              | 16,5          | 700                              | 0,5           | +0,01        | +0,09 | 5          | 5,3          |      |        |      |             |
| BZX 46 C 8V2 | 7,7     | 8,2  | 8,7  | 15            | 6,5                              | 15            | 700                              | 0,5           | +0,01        | +0,09 | 5          | 5,8          |      |        |      |             |
| BZX 46 C 9V1 | 8,5     | 9,1  | 9,6  | 14            | 7,5                              | 14            | 700                              | 0,5           | +0,02        | +0,10 | 5          | 6,4          |      |        |      |             |
| BZX 46 C 10  | 9,4     | 10   | 10,6 | 12,5          | 8,5                              | 12,5          | 700                              | 0,25          | +0,03        | +0,11 | 5          | 7,0          |      |        |      |             |
| BZX 46 C 11  | 10,4    | 11   | 11,6 | 11,5          | 9,5                              | 11,5          | 700                              | 0,25          | +0,03        | +0,11 | 5          | 8,4          |      |        |      |             |
| BZX 46 C 12  | 11,4    | 12   | 12,7 | 10,5          | 11,5                             | 10,5          | 700                              | 0,25          | +0,03        | +0,11 | 5          | 9,1          |      |        |      |             |
| BZX 46 C 13  | 12,4    | 13   | 14,1 | 9,5           | 13                               | 9,5           | 700                              | 0,25          | +0,03        | +0,11 | 5          | 9,9          |      |        |      |             |
| BZX 46 C 15  | 13,8    | 15   | 15,6 | 8,5           | 16                               | 8,5           | 700                              | 0,25          | +0,03        | +0,11 | 5          | 11,4         |      |        |      |             |
| BZX 46 C 16  | 15,3    | 16   | 17,1 | 7,8           | 17                               | 7,8           | 700                              | 0,25          | +0,03        | +0,11 | 5          | 12,2         |      |        |      |             |
| BZX 46 C 18  | 16,8    | 18   | 19,1 | 7             | 21                               | 7             | 750                              | 0,25          | +0,03        | +0,11 | 5          | 13,7         |      |        |      |             |
| BZX 46 C 20  | 18,8    | 20   | 21,2 | 6,2           | 25                               | 6,2           | 750                              | 0,25          | +0,03        | +0,11 | 5          | 15,2         |      |        |      |             |
| BZX 46 C 22  | 20,8    | 22   | 23,3 | 5,6           | 29                               | 5,6           | 750                              | 0,25          | +0,03        | +0,11 | 5          | 16,7         |      |        |      |             |
| BZX 46 C 24  | 22,8    | 24   | 25,6 | 5,2           | 33                               | 5,2           | 750                              | 0,25          | +0,04        | +0,12 | 5          | 18,2         |      |        |      |             |
| BZX 46 C 27  | 25,1    | 27   | 28,9 | 4,6           | 41                               | 4,6           | 750                              | 0,25          | +0,04        | +0,12 | 5          | 20,6         |      |        |      |             |
| BZX 46 C 30  | 28      | 30   | 32   | 4,2           | 49                               | 4,2           | 1000                             | 0,25          | +0,04        | +0,12 | 5          | 22,8         |      |        |      |             |
| BZX 46 C 33  | 31      | 33   | 35   | 3,8           | 58                               | 3,8           | 1000                             | 0,25          | +0,04        | +0,12 | 5          | 25,1         |      |        |      |             |
| BZX 46 C 36  | 34      | 36   | 38   | 3,4           | 70                               | 3,4           | 1000                             | 0,25          | +0,04        | +0,12 | 5          | 27,4         |      |        |      |             |
| BZX 46 C 39  | 37      | 39   | 41   | 3,2           | 80                               | 3,2           | 1000                             | 0,25          | +0,04        | +0,12 | 5          | 29,7         |      |        |      |             |
| BZX 46 C 43  | 40      | 43   | 46   | 3             | 93                               | 3             | 1500                             | 0,25          | +0,04        | +0,12 | 5          | 32,7         |      |        |      |             |

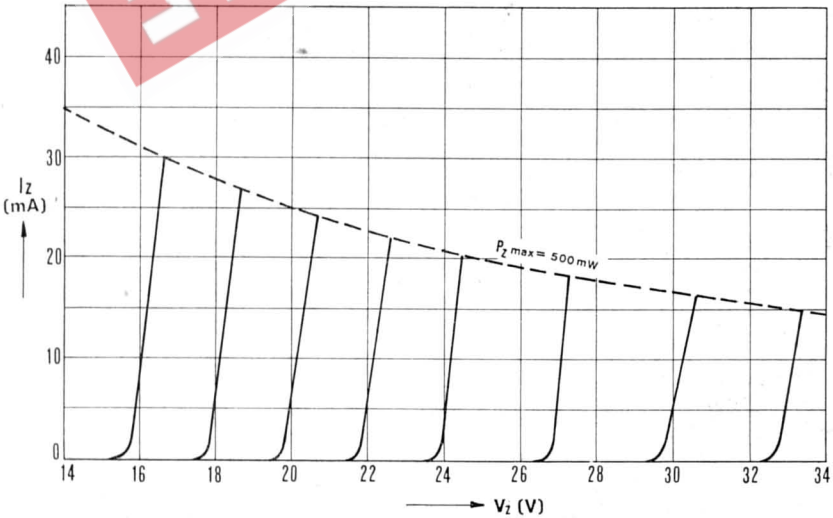
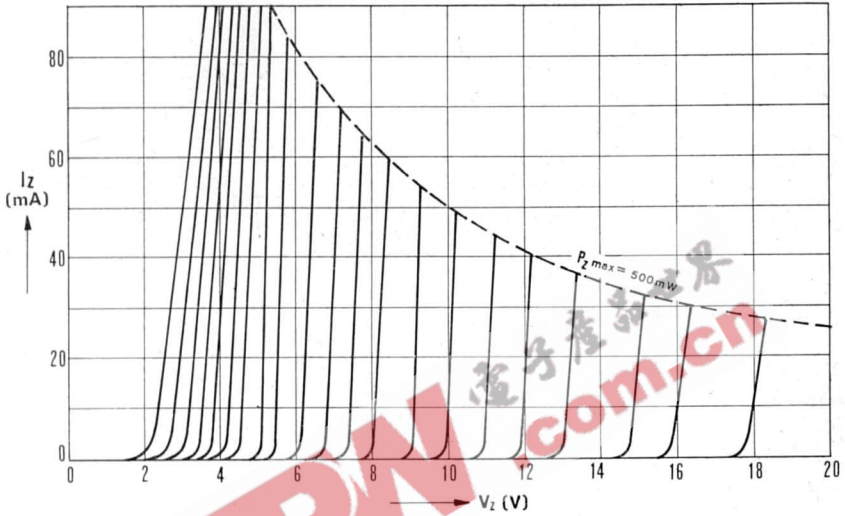
NB A richiesta tolleranza  $\pm 2\%$   
On request tolerance  $\pm 2\%$

\* Misurato ad impulsi  $t_p \leq 100\text{ ms}$   
Pulsed

|                                     |                       | Min | Typ | Max |   |
|-------------------------------------|-----------------------|-----|-----|-----|---|
| Tensione diretta<br>Forward voltage | $I_F = 200\text{ mA}$ |     |     | 1,5 | V |

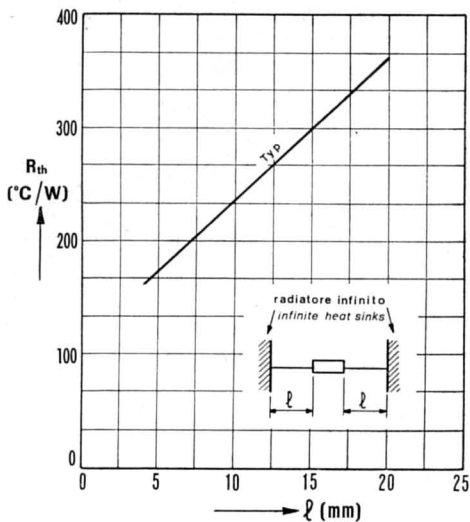
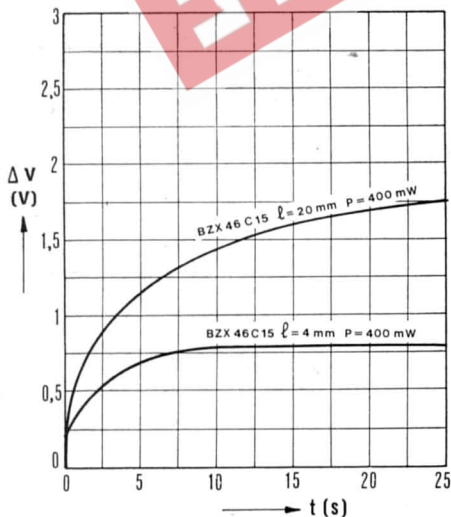
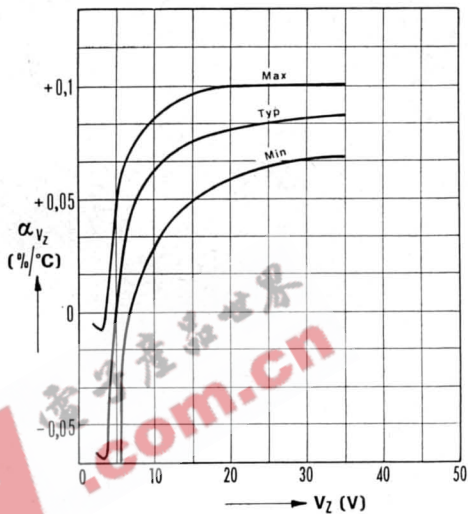
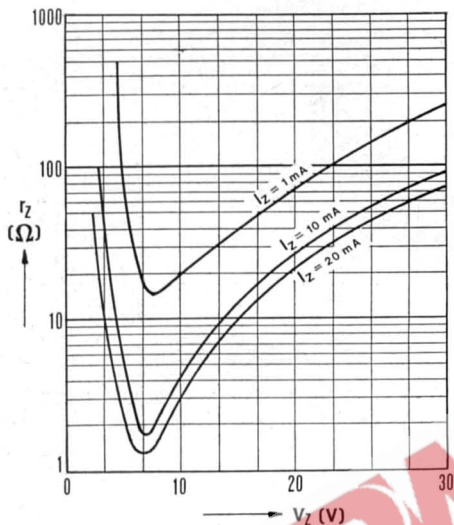
**BZX 46 C 2V7...**  
**...BZX 46 C 43**

**Caratteristiche tipiche**  
*Typical characteristics*



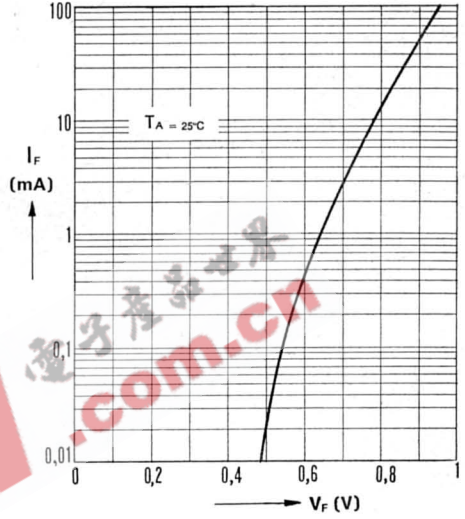
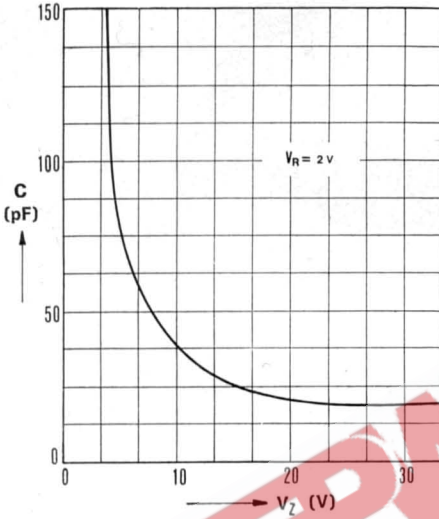
# BZX 46 C 2V7... ...BZX 46 C 43

## Caratteristiche tipiche Typical characteristics



**BZX 46 C 2V7...**  
**...BZX 46 C 43**

**Caratteristiche tipiche**  
*Typical characteristics*



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**BZX 46 C 2V7...**  
**...BZX 46 C 43**

**Caratteristiche tipiche**  
*Typical characteristics*

