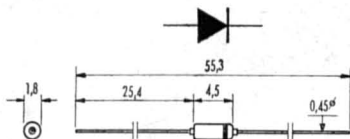


# Z - DIODES

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: .....

$P_Z \text{ max} = 500 \text{ mW}$

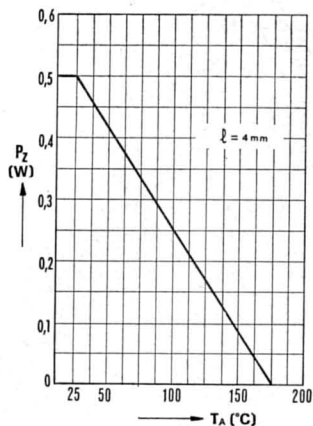
$V_{ZT} = 2,7 \text{ a } 43 \text{ V}$

## VALORI MASSIMI ASSOLUTI

Absolute maximum ratings

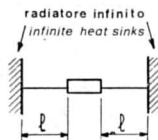
( $T_A = 25^\circ\text{C}$ )

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

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

|              | $V_Z^*$ |      |      | $I_{ZT}$ | $r_{ZT}$ | $I_{ZT}$ | $r_{ZK}$ | $I_{ZK}$ | $\alpha V_Z$ |       | $I_R$ | $V_R$ |
|--------------|---------|------|------|----------|----------|----------|----------|----------|--------------|-------|-------|-------|
|              | @       |      |      |          | @        |          | @        |          |              | @     |       |       |
|              | (V)     |      |      | (mA)     | (Ω)      | (mA)     | (Ω)      | (mA)     | (°/°C)       |       | (μA)  | (V)   |
|              | min.    | nom. | max. |          | max.     |          | 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  $\pm 2\%$

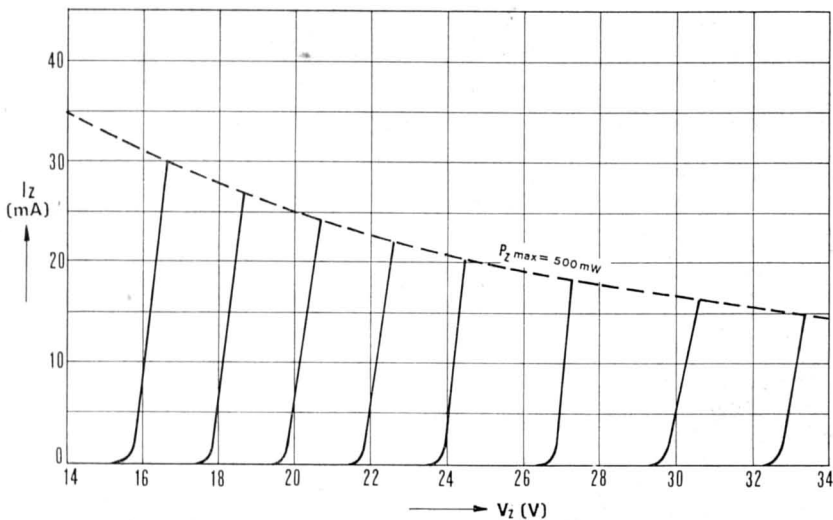
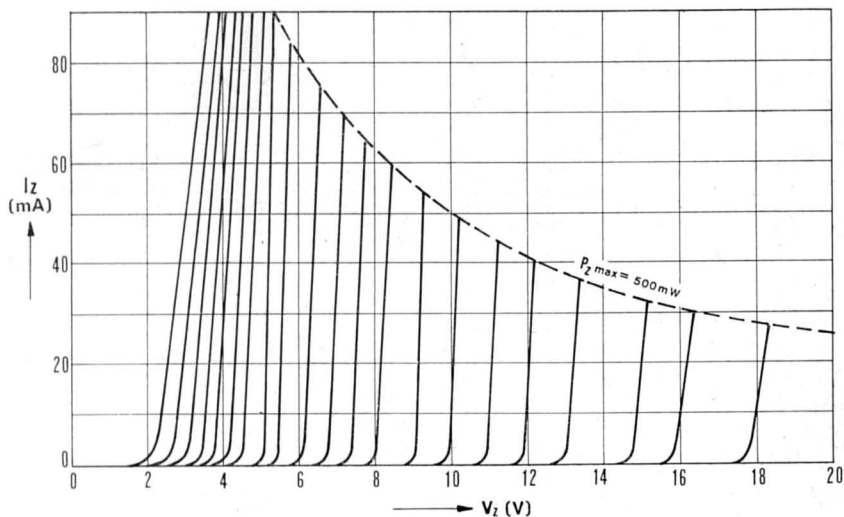
\* Misurato ad impulsi  $t_p \leq 100\text{ }\mu\text{s}$

Pulsed

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

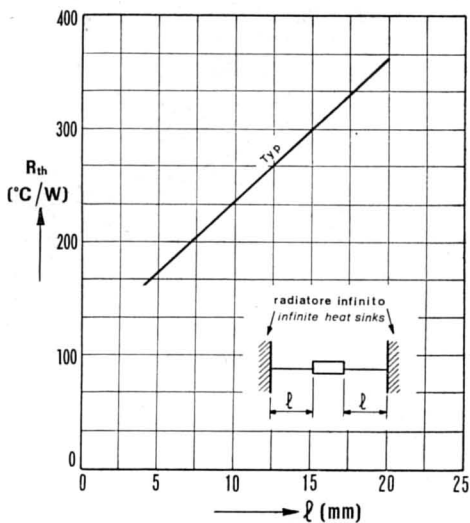
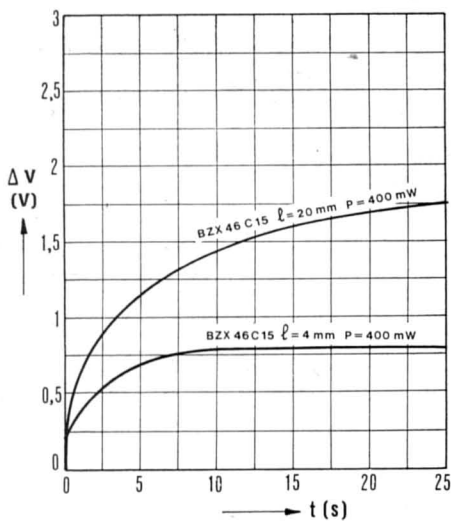
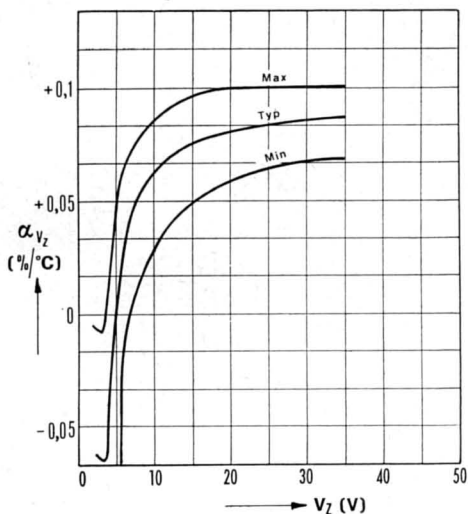
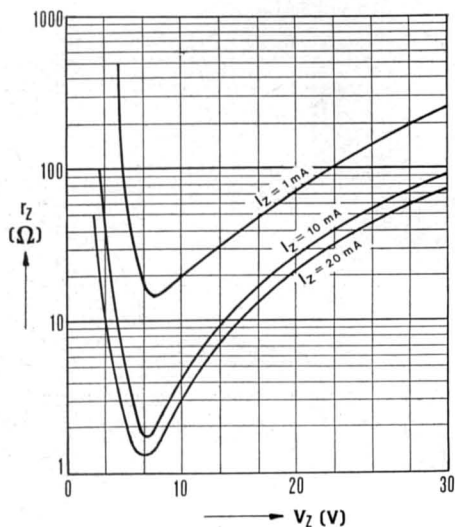
# **BZX 46 C 2V7...** **...BZX 46 C 43**

## **Caratteristiche tipiche** *Typical characteristics*



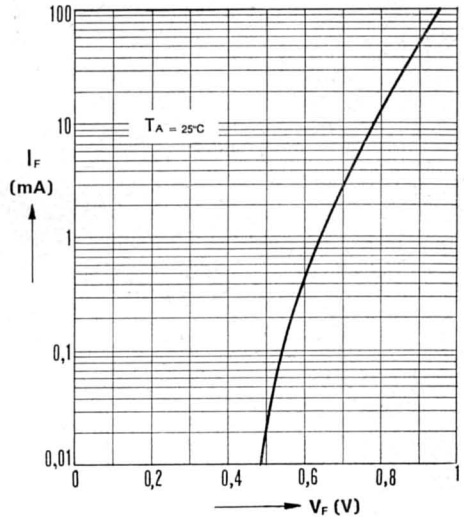
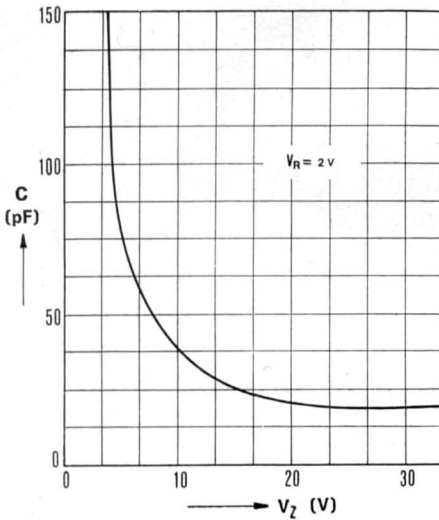
# **BZX 46 C 2V7...** **...BZX 46 C 43**

## **Caratteristiche tipiche** *Typical characteristics*



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

**Caratteristiche tipiche**  
*Typical characteristics*



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

## **Caratteristiche tipiche** *Typical characteristics*

