

Zener Diode 稳压二极管

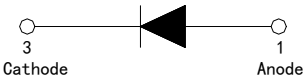
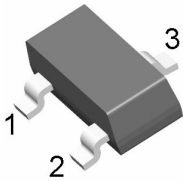
XCZ5217B~5270B

DESCRIPTION & FEATURES 概述及特点

Wide working voltage range: nom. 2.0 to 91V宽电压范围

General regulation functions.普通电压调整应用

SOT-23



PIN ASSIGNMENT 引脚说明

| PIN NAME<br>管脚符号 | PIN NUMBER 引脚序号 | FUNCTION<br>功能 |
|------------------|-----------------|----------------|
|                  | SOT-23          |                |
| A                | 1               | Anode          |
| NC               | 2               | —              |
| C                | 3               | Cathode        |

MAXIMUM RATINGS(T<sub>a</sub>=25℃) 最大额定值

| CHARACTERISTIC 特性参数                                         | Symbol 符号                            | Rating 额定值       | Unit 单位 |
|-------------------------------------------------------------|--------------------------------------|------------------|---------|
| Peak Forward Current 正向峰值电流                                 | I <sub>F</sub>                       | 200              | mAdc    |
| Total Device Dissipation T <sub>A</sub> =25℃<br>总耗散功率 氧化铝衬底 | P <sub>D</sub>                       | 225              | mW      |
| Junction and Storage Temperature结温和储存温度                     | T <sub>J</sub> ,<br>T <sub>stg</sub> | 150,<br>-55 ~150 | ℃       |

ELECTRICAL CHARACTERISTICS 电特性

# 广东协铖微电子科技有限公司

Zener Diode 稳压二极管

**XCZ5217B~5270B**

( $T_A=25^{\circ}\text{C}$  unless otherwise noted 如无特殊说明, 温度为  $25^{\circ}\text{C}$ ,  $V_F=0.9\text{V Max @ }I_F=10\text{mA}$ )

| 型号 TYPE  | Marking | Test Current<br>$I_{ZT}$<br>mA | Zener Voltage<br>$V_Z(\pm 5\%)$<br>Normal<br>(Note 1) | $Z_{zk}$<br>$I_Z=0.25\text{mA}$<br>$\Omega$ Max | $Z_{ZT}$<br>$I_Z=I_{ZT}$<br>@10%Mod<br>$\Omega$ Max | Max<br>$I_R$<br>$\mu\text{A}$<br>@<br>V | $V_R$<br>V |
|----------|---------|--------------------------------|-------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------|-----------------------------------------|------------|
| XCZ5217B | J4      | 20                             | 2.0                                                   | 1500                                            | 35                                                  | 150                                     | 1          |
| XCZ5219B | J5      | 20                             | 2.2                                                   | 1500                                            | 35                                                  | 150                                     | 1          |
| XCZ5221B | W1      | 20                             | 2.4                                                   | 1200                                            | 30                                                  | 100                                     | 1          |
| XCZ5222B | W2      | 20                             | 2.5                                                   | 1250                                            | 30                                                  | 100                                     | 1          |
| XCZ5223B | W3      | 20                             | 2.7                                                   | 1300                                            | 30                                                  | 75                                      | 1          |
| XCZ5224B | W4      | 20                             | 2.8                                                   | 1400                                            | 30                                                  | 75                                      | 1          |
| XCZ5225B | W5      | 20                             | 3.0                                                   | 1600                                            | 29                                                  | 50                                      | 1          |
| XCZ5226B | W6      | 20                             | 3.3                                                   | 1600                                            | 28                                                  | 25                                      | 1          |
| XCZ5227B | W7      | 20                             | 3.6                                                   | 1700                                            | 24                                                  | 15                                      | 1          |
| XCZ5228B | W8      | 20                             | 3.9                                                   | 1900                                            | 23                                                  | 10                                      | 1          |
| XCZ5229B | W9      | 20                             | 4.3                                                   | 2000                                            | 22                                                  | 5                                       | 1          |
| XCZ5230B | W0      | 20                             | 4.7                                                   | 1900                                            | 19                                                  | 5                                       | 2          |
| XCZ5231B | Z1      | 20                             | 5.1                                                   | 1600                                            | 17                                                  | 5                                       | 2          |
| XCZ5232B | Z2      | 20                             | 5.6                                                   | 1600                                            | 11                                                  | 5                                       | 3          |
| XCZ5233B | Z3      | 20                             | 6.0                                                   | 1600                                            | 7                                                   | 5                                       | 3.5        |
| XCZ5234B | Z4      | 20                             | 6.2                                                   | 1000                                            | 7                                                   | 5                                       | 4          |
| XCZ5235B | Z5      | 20                             | 6.8                                                   | 750                                             | 5                                                   | 3                                       | 5          |
| XCZ5236B | Z6      | 20                             | 7.5                                                   | 500                                             | 6                                                   | 3                                       | 6          |
| XCZ5237B | Z7      | 20                             | 8.2                                                   | 500                                             | 8                                                   | 3                                       | 6.5        |
| XCZ5238B | Z8      | 20                             | 8.7                                                   | 600                                             | 8                                                   | 3                                       | 6.5        |
| XCZ5239B | Z9      | 20                             | 9.1                                                   | 600                                             | 10                                                  | 3                                       | 7          |
| XCZ5240B | Z0      | 20                             | 10                                                    | 600                                             | 17                                                  | 3                                       | 8          |
| XCZ5241B | X1      | 20                             | 11                                                    | 600                                             | 22                                                  | 2                                       | 8.4        |
| XCZ5242B | X2      | 20                             | 12                                                    | 600                                             | 30                                                  | 1                                       | 9.1        |
| XCZ5243B | X3      | 9.5                            | 13                                                    | 600                                             | 13                                                  | 0.5                                     | 9.9        |
| XCZ5244B | X4      | 9                              | 14                                                    | 600                                             | 15                                                  | 0.1                                     | 10         |
| XCZ5245B | X5      | 8.5                            | 15                                                    | 600                                             | 16                                                  | 0.1                                     | 11         |
| XCZ5246B | X6      | 7.8                            | 16                                                    | 600                                             | 17                                                  | 0.1                                     | 12         |
| XCZ5247B | X7      | 7.4                            | 17                                                    | 600                                             | 19                                                  | 0.1                                     | 13         |
| XCZ5248B | X8      | 7                              | 18                                                    | 600                                             | 21                                                  | 0.1                                     | 14         |
| XCZ5249B | X9      | 6.6                            | 19                                                    | 600                                             | 23                                                  | 0.1                                     | 14         |
| XCZ5250B | X0      | 6.2                            | 20                                                    | 600                                             | 25                                                  | 0.1                                     | 15         |
| XCZ5251B | Y1      | 5.6                            | 22                                                    | 600                                             | 29                                                  | 0.1                                     | 17         |
| XCZ5252B | Y2      | 5.2                            | 24                                                    | 600                                             | 33                                                  | 0.1                                     | 18         |
| XCZ5253B | Y3      | 5                              | 25                                                    | 600                                             | 35                                                  | 0.1                                     | 19         |
| XCZ5254B | Y4      | 4.6                            | 27                                                    | 600                                             | 41                                                  | 0.1                                     | 21         |
| XCZ5255B | Y5      | 4.5                            | 28                                                    | 600                                             | 44                                                  | 0.1                                     | 21         |
| XCZ5256B | Y6      | 4.2                            | 30                                                    | 600                                             | 49                                                  | 0.1                                     | 23         |
| XCZ5257B | Y7      | 3.8                            | 33                                                    | 700                                             | 58                                                  | 0.1                                     | 25         |
| XCZ5258B | Y8      | 3.4                            | 36                                                    | 700                                             | 70                                                  | 0.1                                     | 27         |
| XCZ5259B | Y9      | 3.2                            | 39                                                    | 800                                             | 80                                                  | 0.1                                     | 30         |
| XCZ5260B | Y0      | 3                              | 43                                                    | 900                                             | 93                                                  | 0.1                                     | 33         |
| XCZ5261B | U1      | 2.7                            | 47                                                    | 1000                                            | 105                                                 | 0.1                                     | 36         |
| XCZ5262B | U2      | 2.5                            | 51                                                    | 1100                                            | 125                                                 | 0.1                                     | 39         |
| XCZ5263B | U3      | 2.2                            | 56                                                    | 1300                                            | 150                                                 | 0.1                                     | 43         |
| XCZ5264B | U4      | 2.1                            | 60                                                    | 1400                                            | 170                                                 | 0.1                                     | 46         |
| XCZ5265B | U5      | 2                              | 62                                                    | 1400                                            | 185                                                 | 0.1                                     | 47         |
| XCZ5266B | U6      | 1.8                            | 68                                                    | 1600                                            | 230                                                 | 0.1                                     | 52         |
| XCZ5267B | U7      | 1.7                            | 75                                                    | 1700                                            | 170                                                 | 0.1                                     | 56         |
| XCZ5268B | U8      | 1.5                            | 82                                                    | 2000                                            | 330                                                 | 0.1                                     | 62         |
| XCZ5269B | U9      | 1.4                            | 87                                                    | 2200                                            | 370                                                 | 0.1                                     | 68         |
| XCZ5270B | U0      | 1.4                            | 91                                                    | 2300                                            | 400                                                 | 0.1                                     | 69         |