

# 50 $\mu$ A Zener Diodes

## The ideal choice to meet the growing power-saving demands

Nexperia has significantly improved its 50  $\mu$ A Zener diodes to ensure optimal efficiency even at high voltages. This redesign guarantees enhanced functionality, delivering even greater value to our customers.

### Portfolio

- › Zener voltage range 1.8 V up to 51 V
- › Vz operating point specified at 50  $\mu$ A
- › Voltage tolerance of  $\pm 5\%$  and  $\pm 2\%$
- › Six package options
- › Automotive and standard versions available

### Benefits

- › Excellent suited for applications with low power dissipation e.g. battery-powered devices
- › No appearance of overswing and noise

### Key applications

- › Supply voltage stabilization
- › Voltage comparison for sensor or supply voltage
- › MOSFET gate protection
- › MOSFET avalanche breakdown protection
- › On board chargers, computer units, battery management systems
- › Handheld and battery driven devices
- › Mobiles and wearables

### Package Landscape



- › **DFN1006BD-2**  
Side Wettable Flanks  
1 x 0.6 x 0.47 mm



- › **DFN1006-2**  
Ultra Small Leadless  
1 x 0.6 x 0.47 mm



- › **SOD123F**  
Flat Leads  
2.6 x 1.6 x 1.1 mm



- › **SOD323**  
Standard leads  
1.2 x 0.8 x 0.6 mm



- › **SOD523**  
Small Flat Leads  
1.2 x 0.8 x 0.6 mm

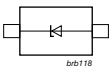
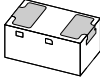
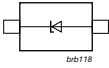

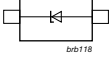
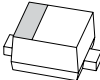
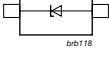
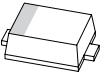
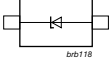
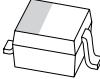
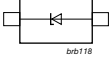



- › **SOT23**  
Standard leads  
2.9 x 1.9 x 1 mm

**nexperia**

EFFICIENCY WINS.

## 50 $\mu$ A Zener Diodes ( $V_z$ @ 50 $\mu$ A)

$I_F$ max (mA)	$P_{ZSM}$ (W)	$V_z$ nom (V)	$V_z$ tolerance	Note	Configuration		Series	Package	Automotive - qualified	Size (mm)	$P_{tot}$ (mW)
200	40	1.8"51	B, C	Europe	Single		BZX8850S-Q series BZX8850S series	 DFN1006BD-2 (SOD882BD)	Yes No	1.0 x 0.6 x 0.47	365
200	40	1.8"51	B, C	Europe	Single		BZX8850-Q series BZX8850 series	 DFN1006-2 (SOD882)	Yes No	1.0 x 0.6 x 0.6	250
250	40	1.8"51	B, C	Europe	Single		BZX58550-Q series BZX58550 series	 SOD523 (SC-79)	Yes No	1.2 x 0.8 x 0.6	300
200	40	1.8"51	B, C	Europe	Single		BZT5250H-Q series BZT5250H series	 SOD123F	Yes No	2.6 x 1.6 x 1.1	375
250	40	1.8"51	B, C	Europe	Single		BZX38450-Q series BZX38450 series	 SOD323 (SC-76)	Yes No	1.7 x 1.25 x 0.95	300
200	40	1.8"51	B, C	Europe	Single		BZX8450-Q series BZX8450 series	 SOT23	Yes No	2.9 x 1.3 x 1.0	250

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