

PZU Zener Diodes

Protect your application from overswing and noise with Nexperia PZU Zener diodes

Nexperia's PZU-Family extension provides a reliable choice for essential applications, addressing concerns such as overswing and noise associated with standard Zeners, or when a sharper Zener threshold is necessary.

Portfolio

- › Zener voltage range from 2.4 V up to 51 V
- › Operating V_z at 5 mA
- › European (B,C) and Japanese Spec (B,B2)
- › Voltage tolerance of $\pm 5\%$ and $\pm 2\%$
- › Five package options available
- › Automotive and standard versions available

Benefits

- › No noise and overswing behaviour
- › Low leakage (low I_r)
- › Low differential resistance (low R_z)
- › Sharp avalanche breakthrough
- › 1:1 replacement for BZX*Series

Key applications

- › General regulation functions
- › Precise clamping
- › MOSFET gate protection
- › Over-voltage protection

Recommended usecases

- › Instable input current that might fall under 50 μ A
- › Input current under 50 μ A
- › When used for clamping

Package Landscape



- › **DFN1006BD-2**
Leadless ultra small with side-wettable flanks (SWF)
1 x 0.6 x 0.47 mm



- › **DFN1006-2**
Leadless ultra small
1 x 0.6 x 0.47 mm



- › **SOD323F**
Flat Leads
1.2 x 0.8 x 0.6 mm



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

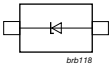
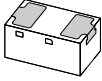
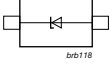

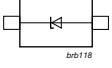
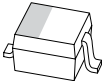
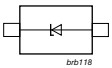
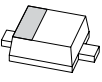
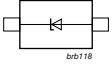



- › **SOT23**
Standard leads
2.9 x 1.9 x 1 mm

nexperia

EFFICIENCY WINS.

PZU Zener diodes

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)
250	40	2.4~51	B, C	Europe	Single		PZU884LSx series	 DFN1006BD-2 (SOD882BD)	Yes	1.0 x 0.6 x 0.47	300
200	40	2.4~51	B, B2	Japan	Single		PZUxBL series	 DFN1006-2 (SOD882)	Yes	1.0 x 0.6 x 0.47	250
200	40	2.4~51	B, B2	Japan	Single		PZUxBA series	 SOD323 (SC-76)	Yes	1.7 x 1.25 x 0.95	300
200	40	2.4~51	B, B2	Japan	Single		PZUxB series	 SOD323F (SC-90)	Yes	1.7 x 1.25 x 0.7	550
200	40	2.4~51	B, C	Europe	Single		PZU84x series	 SOT23	Yes	2.9 x 1.9 x 1.0	250

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