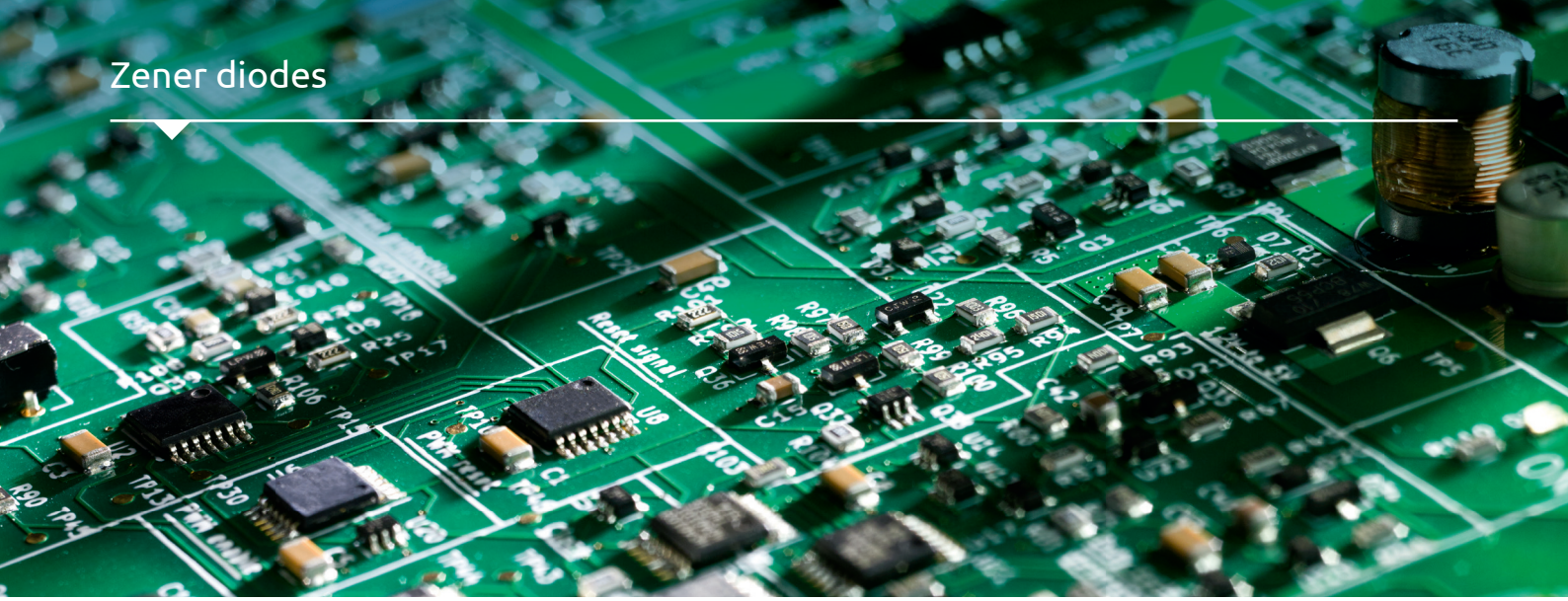


Compact voltage regulation for high density circuits

Nexperia offers more than 1500 product types – including a high portion of automotive AEC-Q101 qualified portfolio. Both Japanese and European selection groups in a wide variety of voltage, package and configuration options. Benefit from unmatched supply security and customize your design in small scale, high density circuits.

Product features:

- Comprehensive range of package and power dissipation options
- Realization of customized, effective protection in small scaled, high density circuit designs.
- Wide range of working voltages
- Narrow working-voltage tolerances

Technical Specification Ranges:

- 1051 standard leaded part numbers in:
  - SOT23
  - SOT323
  - SOT89
  - SOT223
  - SOD123(F)
  - SOD323(F)
  - SOD523
- 150 leadless DFN part numbers in DFN1006(BD)-2 (SOD882) incl. parts with side-wettable flanks
- 310 Glass Package part numbers in:
  - SOD27
  - SOD80
  - SOD66

Technical Specification Ranges:

- I_{max} from 200 mA – 500 mA
- V_{max} from 2 V – 105 V
- P_{tot} from 250 mW – 1500 mW

Applications

- General regulation and voltage reference functions
- Over-voltage protection



DFN1006-2
1 x 0.6 x 0.27



SOT23
2.9 x 1.3 x 1



SOD323F
1.7 x 1.25 x 0.7



SOD123F
2.6 x 1.6 x 1.1



SOT223
6.5 x 3.5 x 1.65



SOT323
2 x 1.25 x 0.95

nexperia

EFFICIENCY WINS.

General purpose 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)
500	-	3.3~24	C	Europe	Single		1N47xxA series	SOD66 (DO-41) 	No	4.8 x 2.6 x 0.81	1000
	60	3.6~75					BZV85 series				
250	-	2.1~36	About 2%	Special	Single		NZX series	SOD27 (DO-35) 	No	4.25 x 1.85 x 0.56	400
	40	2.4~75	B, C	Europe			BZX79 series				
400	40	2.4~75	C	Europe	Single		BZV90 series	SOT223 (SC-73) 	Yes	6.5 x 3.5 x 1.65	1500
250	40	2.4~75	C	Europe	Single		BZV49 series	SOT89 (SC-62) 	Yes	4.5 x 2.5 x 1.5	1000
250	40	2.4~75	B, C	Europe	Single		BZV55 series	SOD80C (MiniMelf) 	No	3.5 x 1.5 x 1.5	400
200	40	2.4~75	B, C	Europe	Dual c.a.		BZB84 series	SOT23 	Yes	2.9 x 1.3 x 1.0	250
			A, B, C		Single		BZX84 series				
250	30	5~6.8	0.2 V	Ave			PLVA600A series				
250	40	2.4~75	B, C	Europe	Single		BZT52 series	SOD123 	Yes	2.7 x 1.6 x 1.2	550
200		2.4~36	B	Japan			PDZ-GW series				
250	-	3.0~30	About 2.5%	Special	Single		NZH series	SOD123F 	Yes	2.6 x 1.6 x 1.1	830
	40	2.4~75	B, C	Europe			BZT52H series				
200	40	10	B2	Japan	Dual isolated		PZU10DB2 series	SOT353 (SC-88A) 	Yes	2.0 x 1.25 x 0.95	300
200	40	2.4~15	C	Europe	Dual c.a.		BZB784 series	SOT323 (SC-70) 	Yes	2.0 x 1.25 x 0.95	350
200	40	2.4~75	B, C	Europe	Single		BZX84W series				
200	30	100	C	Europe	Back-to-back		BZB100A	SOD323 (SC-76) 	Yes	1.7 x 1.25 x 0.95	300
	40	2.4~36	B2	Japan	Single		PDZ-B series				
250	40	2.4~75	B, C	Europe			BZX384 series				
200	40	2.4~36	B, B1, B2, B3	Japan			PZUxBA series				
200	60	100	C	Europe	Single		BZX100A	SOD323F (SC-90) 	Yes	1.7 x 1.25 x 0.7	550
200	40	2.4~36	B, B1, B2, B3	Japan			PZUxB series				
250	40	2.4~75	B, C	Europe			BZX84J series				
200	40	2.4~75	B, C	Europe	Single		BZX585 series	SOD523 (SC-79) 	Yes	1.2 x 0.8 x 0.6	300
200	40	2.4~75	B, C	Europe	Single		BZX884 series	DFN1006-2 (SOD882) 	Yes	1.0 x 0.6 x 0.48	250
		2.4~36	B, B2	Japan			PZUxBL series				
200	40	2.4~75	B, C	Europe	Single		BZX884S series	DFN1006BD-2 (SOD882BD) 	Yes	1.0 x 0.6 x 0.47	250
250	40	2.4~30	B	Europe	Single		TDZxJ series	SOD323F 	Yes	1.7 x 1.25 x 0.7	500

Notes:
Japan: B selection: app. 5% Vz tolerance, B1, B2, B3 selections: app. 2% Vz tolerance in sequential intervals
Europe: A selection: app. 1% Vz tolerance, B selection: app. 2% Vz tolerance, C selection: app. 5% Vz tolerance; the selections are in overlapping intervals

Ave: low-voltage avalanche regulator diodes
Dual c.a.: dual common anode

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