

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



1 x 0.6 x 0.27

SOD123F

26x16x11





SOT223



SOT23 2.9 x 1.3 x 1





SOD323F

1.7 x 1.25 x 0.7

SOT323 2 x 1.25 x 0.9

nexperia

EFFICIENCY WINS.

General purpose Zener diodes

l _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	240178	1N47xxA series	SOD66	\$	No	4.8 x 2.6 x 0.81	1000
	60	3.6~75					BZV85 series	(DO-41)				
250	-	2.1~36	About 2%	Special	Single	Let 178	NZX series	SOD27	þ	No	4.25 x 1.85 x 0.56	400
	40	2.4~75	B, C	Europe			BZX79 series	(DO-35)				
400	40	2.4~75	с	Europe	Single	1 - 3 2,4 008ash234	BZV90 series	SOT223 (SC-73)	æ	Yes	6.5 x 3.5 x 1.65	1500
250	40	2.4~75	с	Europe	Single	1 3	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)	8	No	3.5 x 1.5 x 1.5	400
200	40	2.4~75	B, C	Europe	Dual c.a.		BZB84 series		æ	Yes	2.9 x 1.3 x 1.0	250
		2.4.15	A, B, C			berile A	BZX84 series	SOT23				
250	30	5~6.8	0.2 V	Ave	Single	Darro	PLVA600A series					
250	40	2.4~75	B, C	Europe	Single	bet78	BZT52 series	SOD123		Yes	2.7 x 1.6 x 1.2	550
200	40	2.4~36	в	Japan			PDZ-GW series	50D123 4				
250	-	3.0~30	About 2.5%	Special	Single	beb 7 X8	NZH series			Yes	2.6 x 1.6 x 1.1	830
	40	2.4~75	B, C	Europe			BZT52H series	SOD123F				
200	40	10	B2	Japan	Dual isolated		PZU10DB2 series	SOT353 (SC-88A)	A	Yes	2.0 x 1.25 x 0.95	300
200	40	2.4~15	С	Europe	Dual c.a.	A CONTRACTOR	BZB784 series	SOT323 Ø	R	Yes	2.0 x 1.25 x 0.95	350
200	40	2.4~75	B, C	Europe	Single	A n.c.	BZX84W series	(SC-70)				
200	30	100	с	Europe	Back-to-back		BZB100A					
	40	2.4~36	B2	Japan			PDZ-B series	SOD323		Yes	1.7 x 1.25 x 0.95	300
250	40	2.4~75	B, C	Europe	Single		BZX384 series	(SC-76)				
200	40	2.4~36	B, B1, B2, B3	Japan		210/78	PZUxBA series					
200	60	100	с	Europe		L4 beits	BZX100A			Yes	1.7 x 1.25 x 0.7	550
200	40	2.4~36	B, B1, B2, B3	Japan	Single		PZUxB series	SOD323F (SC-90)				
250	40	2.4~75	B, C	Europe			BZX84J series					
200	40	2.4~75	B, C	Europe	Single	Luci 118	BZX585 series	SOD523 (SC-79)		Yes	1.2 x 0.8 x 0.6	300
200	40	2.4~75	B, C	Europe	Single	beb 718	BZX884 series	DFN1006-2	6-5	Yes	1.0 x 0.6 x 0.48	250
		2.4~36	B, B2	Japan			PZUxBL series	(SOD882)				
200	40	2.4~75	B, C	Europe	Single		BZX884S series	DFN1006BD-2 (SOD882BD)	ļ	Yes	1.0 x 0.6 x 0.47	250
250	40	2.4~30	В	Europe	Single	Let 118	TDZxJ series	SOD323F ศู		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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