Zener diodes portfolio

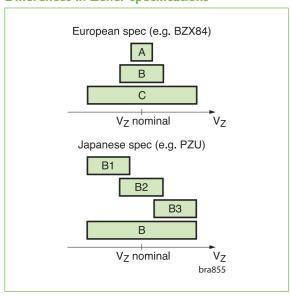
General purpose Zener diodes

					Package	SOD27 (DO-35)	SOD80C (MiniMelf)	SOT346 (SC-59)	SOT23	SOD123F	SOT323 (SC-70)	SOD323 (SC-76)	SOD323F (SC-90)	SOT663	SOD523 (SC-79)	SOD882
	P _{ZSM} [W]	Vz nom [V]	Vz tolerance					A.					4			
I _F max [mA]						Leaded glass	Glass SMD	Plastic SMD	Plastic SMD	Plastic flat lead SMD	Plastic SMD	Plastic SMD	Plastic flat lead SMD	Plastic flat lead SMD	Plastic flat lead SMD	Leadless Micro Package
				Note		4.25 × 1.85 × 0.56	3.5 x 1.5 x 1.5		2.9 × 1.3 × 1.0	2.6 × 1.6 × 1.1	2.0 × 1.25 × 0.95	1.7 × 1.25 × 0.95		1.6 × 1.2 × 0.55	1.2 × 0.8 × 0.6	1.0 × 0.6 × 0.5
				ž	P _{tot} [mW]	400	300	220	250	830	350	300	550	350	300	250
200	-	2.4~15	B, B2	Јар	dual c.a.			PZM-NA series								
		2.4~75	A, B, C	Eur	single				BZX84 series							
	40		B, C	Eur	single							BZX384 series			BZX585 series	BZX884 series
			С	Eur	single					BZT52H series						
		2.4~15	С	Eur	dual c.a.						BZB784 series			BZB984 series		
	-	2.4~36	В	Јар	single							PDZ series				
250	-	2.4~36	B, B1, B2, B3	Јар	single			PZM-N series					PZU series			
	40	2.4~75	B, C	Eur	single	BZX79 series	BZV55 series									

Notes: Zener specification

Eur: European Zener specification Jap: Japanese Zener specification dual c.a.: dual common anode

Differences in Zener specifications



European Zener specifications (e.g. BZX84 series)

are using 3 different selections centered around the target voltage (V $_{\rm z\ nom})$

A series: 1 % tolerance
B series: 2 % tolerance
C series: 5 % tolerance

Japanese Zener specifications (e.g. PZU series)

are using 3 sequential selections and one centered selection around the target voltage ($V_{z\ nom}$)

B1, B2, B3 series: 2 % tolerances B series: 5 % tolerance



Zener diodes portfolio

Medium power Zener diodes

		[v] mon :			Package	SOT223 (SC-73)	SOD66 (DO-41)	SOT89 (SC-62)
IF max [mA]	P _{ZSM} [W]		V _z tolerance			Plastic SMD	Leaded glass	Plastic flat lead SMD
max] WS		<u>5</u>	Note	Size [mm]	6.5 x 3.5 x 1.65	4.8 x 2.6 x 0.81	4.5 x 2.5 x 1.5
<u>-</u>	Pz	\ \ \	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		P _{tot} [mW]	1500	1000	1000
250	40	2.4~75	C Eu	Eur	single			BZV49 series
400	40	2.4~75	С	Eur single		BZV90 series		
500	-	3.3~24	С	Eur	single		1N47xxA series	
300	60	3.6~75	С	Eur	single		BZV85 series	

Low voltage avalanche regulator diodes

		V ₂ nom [V]		Package	SOT23
Ir max [mA]	۷		V _Z tolerance [V]		Plastic SMD
max	P _{ZSM} [W]		V _z tol	Size [mm]	2.9 x 1.3 x 1.0
	P_{Z}			P _{tot} [mW]	250
250	30	5~6.8	± 0.2	single	PLVA600A series
250	30	3~6.6	± 0.2	dual c.a.	PLVA2600A series

Key features

- Tolerance series ± 1 %, ± 2 % and approx. ± 5 % groups
- Working voltage range: nom. 2.4 to 75 V (E24 range)
- Non-repetitive peak reverse power dissipation: max. 60 W
- Broad range of plastic surface mounted and glass packages

Key applications

- · General regulation functions
- Voltage stabilizers
- Voltage references

Philips Semiconductors

Philips Semiconductors is one of the world's top semiconductor suppliers, with 20 manufacturing and assembly sites and a sales organization that delivers in 60 countries. For a complete up-to-date list of our sales offices please visit our website http://www.semiconductors.philips.com/sales For the latest news from Philips Semiconductors, please register at: http://www.semiconductors.philips.com/my

©2006 Koninklijke Philips Electronics N.V.

All rights reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use. Publication thereof does not convey nor imply any license under patent- or other industrial or intellectual property rights.

Date of release: July 2006
Document order number: 9397 750 15594
Published in the Netherlands

