

PDZ4.7B-AU ~ PDZ36B-AU

SURFACE MOUNT SILICON ZENER DIODES

VOLTAGE 4.7 to 36 Volt **POWER** 400 mWatt

SOD-323

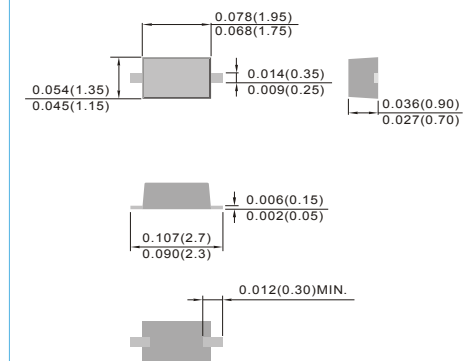
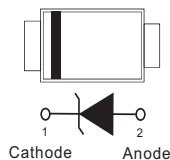
Unit : inch(mm)

FEATURES

- Planar Die construction
- 400mW Power Dissipation
- Ideally Suited for Automated Assembly Processes
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std. . (Halogen Free)
- AEC-Q101 qualified

MECHANICAL DATA

- Case: SOD-323, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Appox Weight: 0.00014 ounces, 0.0041 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	LIMITS	UNIT
Maximum Power Dissipation (Note A) at 25°C	P_D	400	mW
Operating Junction and Storage Temperature Range	T_J	-55 to + 150	°C
Thermal Resistance, Junction to Ambient (Note B)	$R_{\theta JA}$	650	°C/W

NOTE :

A.Mounted on 5mm²(0.013mm thick) land areas

B.Mounted on a FR4 PCB, single-sided copper, mini pad.



PDZ4.7B-AU ~ PDZ36B-AU

Part Number	Nominal Zener Voltage		Max. Zener Impedance				Max Reverse Leakage Current		Marking Code
	V _Z @ I _{ZT}		Z _{VT} @ I _{ZT}		Z _{ZK} @ I _{ZK}		I _R @ V _R		
	Min. V	Max. V	Ω	mA	Ω	mA	μA	V	
PDZ4.7B-AU	4.55	4.75	90	5	600	1	0.75	1.5	Z7
PDZ5.1B-AU	4.96	5.2	60	5	800	0.5	0.75	1.5	Z8
PDZ5.6B-AU	5.48	5.73	50	5	400	0.5	0.50	3.0	Z9
PDZ6.2B-AU	6.06	6.33	50	5	80	0.5	0.50	3.0	ZA
PDZ6.8B-AU	6.65	6.93	40	5	60	0.5	0.50	3.5	ZB
PDZ7.5B-AU	7.28	7.60	10	5	60	0.5	0.50	4.0	ZC
PDZ8.2B-AU	8.02	8.36	10	5	60	0.5	0.50	5.0	ZD
PDZ9.1B-AU	8.85	9.23	10	5	60	0.5	0.50	6.0	ZE
PDZ10B-AU	9.77	10.21	10	5	60	0.5	0.10	7.0	ZF
PDZ11B-AU	10.78	11.22	10	5	60	0.5	0.10	8.0	ZG
PDZ12B-AU	11.74	12.24	10	5	80	0.5	0.10	9.0	ZH
PDZ13B-AU	12.91	13.49	10	5	80	0.5	0.10	10.0	ZJ
PDZ15B-AU	14.34	14.98	15	5	80	0.5	0.05	11.0	ZK
PDZ16B-AU	15.85	16.51	20	5	80	0.5	0.05	12.0	ZL
PDZ18B-AU	17.56	18.35	20	5	80	0.5	0.05	13.0	ZM
PDZ20B-AU	19.52	20.39	20	5	100	0.5	0.05	15.0	ZN
PDZ22B-AU	21.54	22.47	25	5	100	0.5	0.05	17.0	ZP
PDZ24B-AU	23.72	24.78	30	5	120	0.5	0.05	19.0	ZQ
PDZ27B-AU	26.19	27.53	40	5	150	0.5	0.05	21.0	ZR
PDZ30B-AU	29.19	30.69	40	5	200	0.5	0.05	23.0	ZS
PDZ33B-AU	32.15	33.79	40	5	250	0.5	0.05	25.0	ZT
PDZ36B-AU	35.07	36.87	60	5	300	0.5	0.05	27.0	ZU

PDZ4.7B-AU ~ PDZ36B-AU

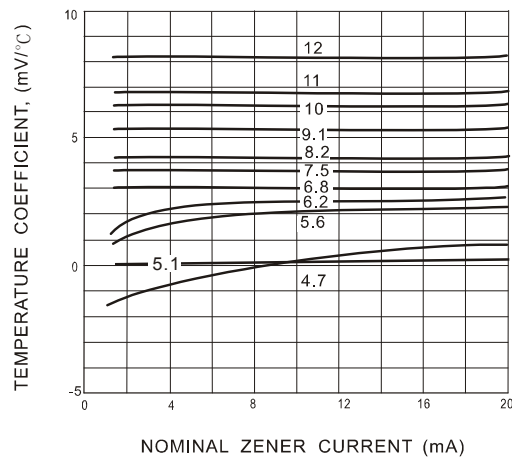


Fig.1 TEMPERATURE COEFFICIENTS AS
FUNCTION OF WORKING CURRENT ; TYPICAL VALUES

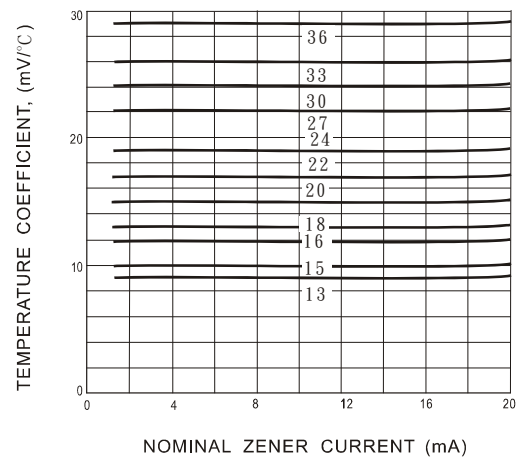


Fig.2 TEMPERATURE COEFFICIENTS AS
FUNCTION OF WORKING CURRENT ; TYPICAL VALUES

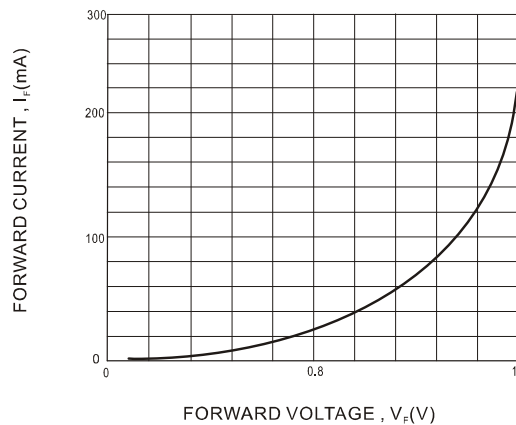


Fig.3 Forward current as a function of forward
voltage ; typical values

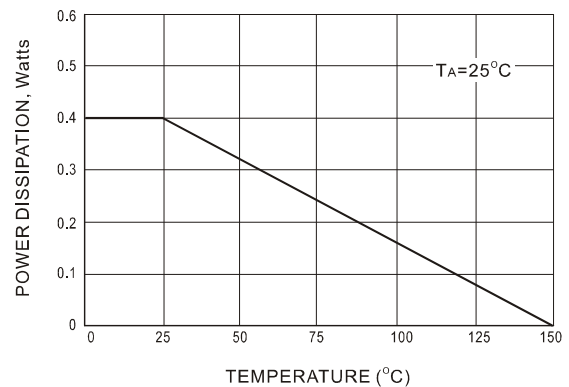


Fig.4 POWER DERATING CURVE

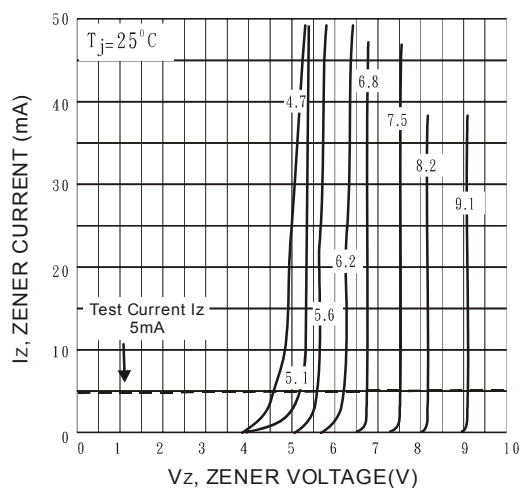


Fig.5 ZENER BREAKDOWN CHARACTERISTICS

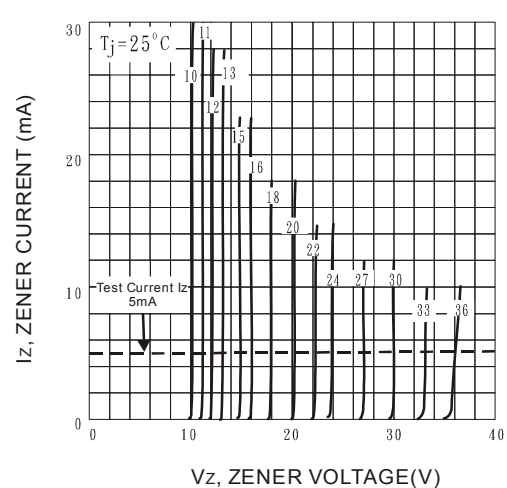


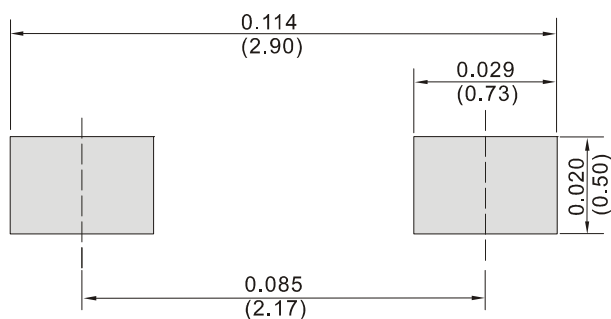
Fig.6 ZENER BREAKDOWN CHARACTERISTICS

PDZ4.7B-AU ~ PDZ36B-AU

MOUNTING PAD LAYOUT

SOD-323

Unit : inch(mm)



ORDER INFORMATION

- Packing information
T/R - 12K per 13" plastic Reel
T/R - 5K per 7" plastic Reel

PDZ4.7B-AU ~ PDZ36B-AU

Part No_packing code_Version

PDZ4.7B-AU_R1_000A1

PDZ4.7B-AU_R2_000A1

For example :

RB500V-40_R2_00001

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

Packing Code XX				Version Code XXXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



PDZ4.7B-AU ~ PDZ36B-AU

Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Panjit:

[PDZ16B-AU_R1_000A1](#)