



# PDZ4.7B-AU ~ PDZ36B-AU

## SURFACE MOUNT SILICON ZENER DIODES

**VOLTAGE** 4.7 to 36 Volt

**POWER** 400 mWatt

**SOD-323**

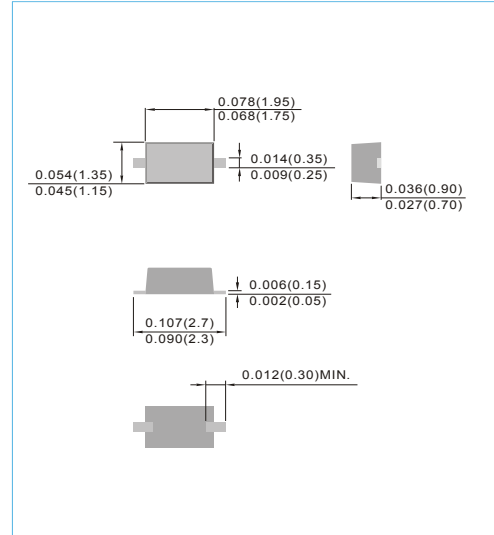
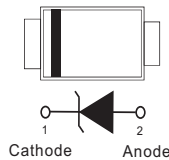
Unit : inch(mm)

### 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 5mm<sup>2</sup>(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 <sub>Z</sub> @ I <sub>ZT</sub>		Z <sub>ZT</sub> @ I <sub>ZT</sub>		Z <sub>ZK</sub> @ I <sub>ZK</sub>		I <sub>R</sub> @ V <sub>R</sub>		
	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



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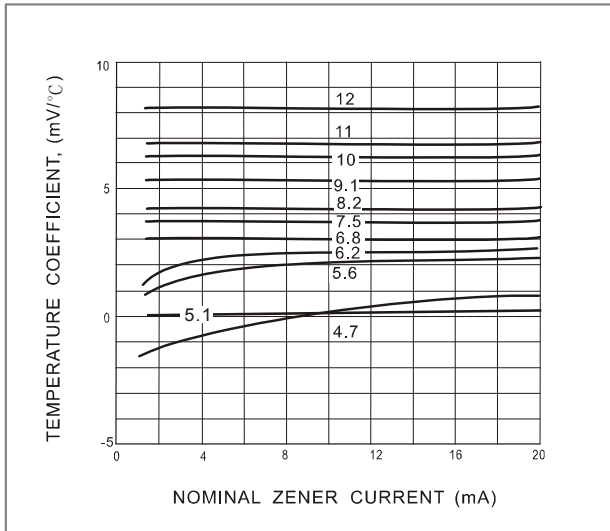


Fig.1 TEMPERATURE COEFFICIENTS AS FUNCTION OF WORKING CURRENT ; TYPICAL VALUES

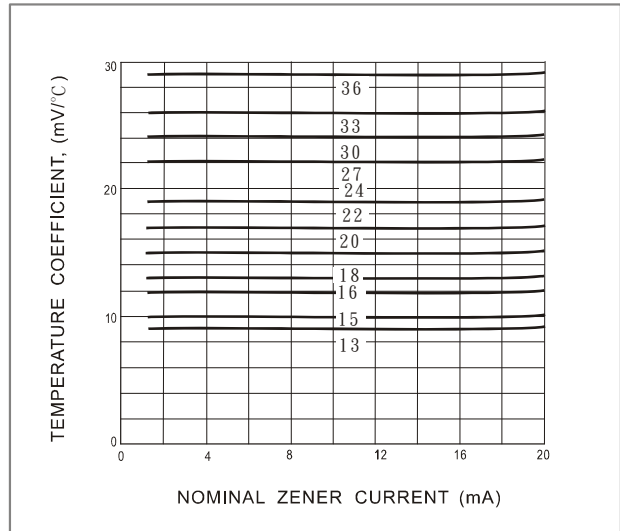


Fig.2 TEMPERATURE COEFFICIENTS AS FUNCTION OF WORKING CURRENT ; TYPICAL VALUES

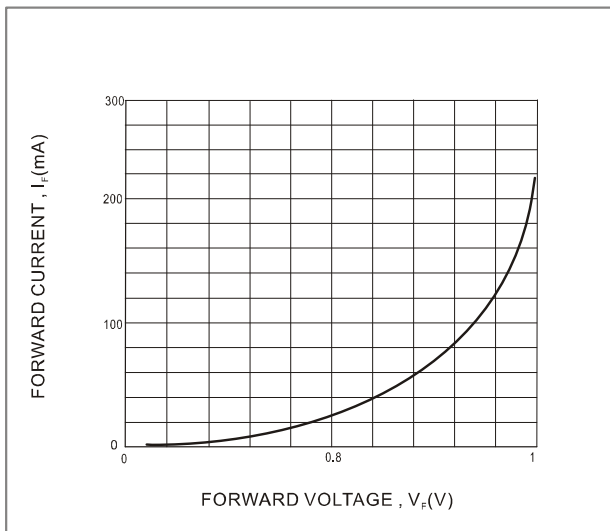


Fig.3 Forward current as a function of forward voltage ; typical values

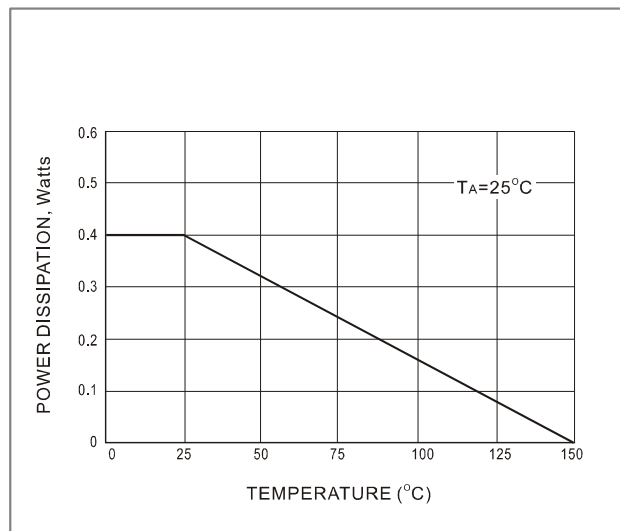


Fig.4 POWER DERATING CURVE

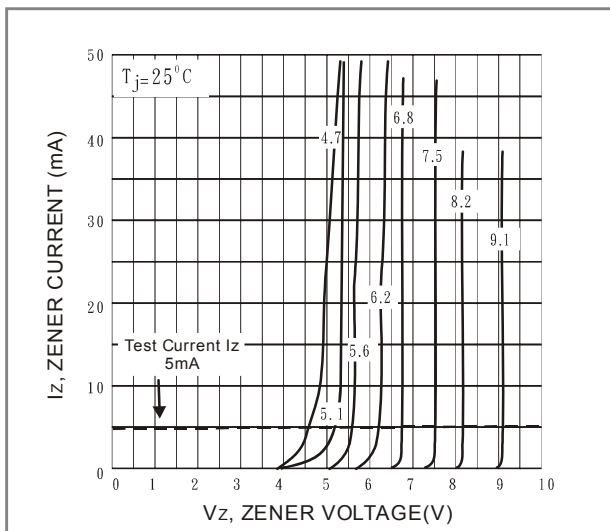


Fig.5 ZENER BREAKDOWN CHARACTERISTICS

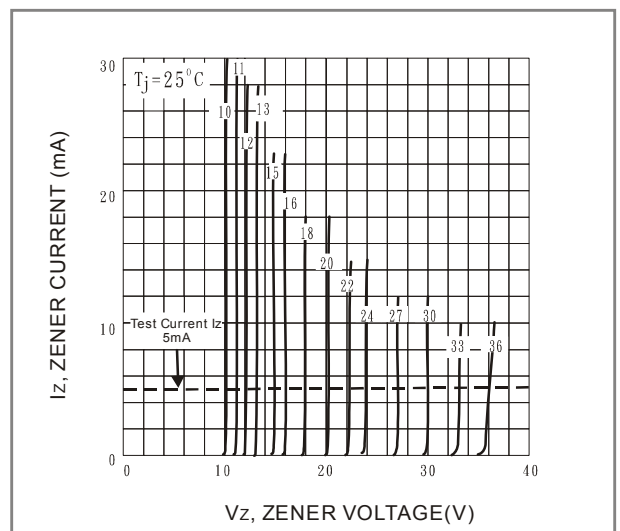


Fig.6 ZENER BREAKDOWN CHARACTERISTICS

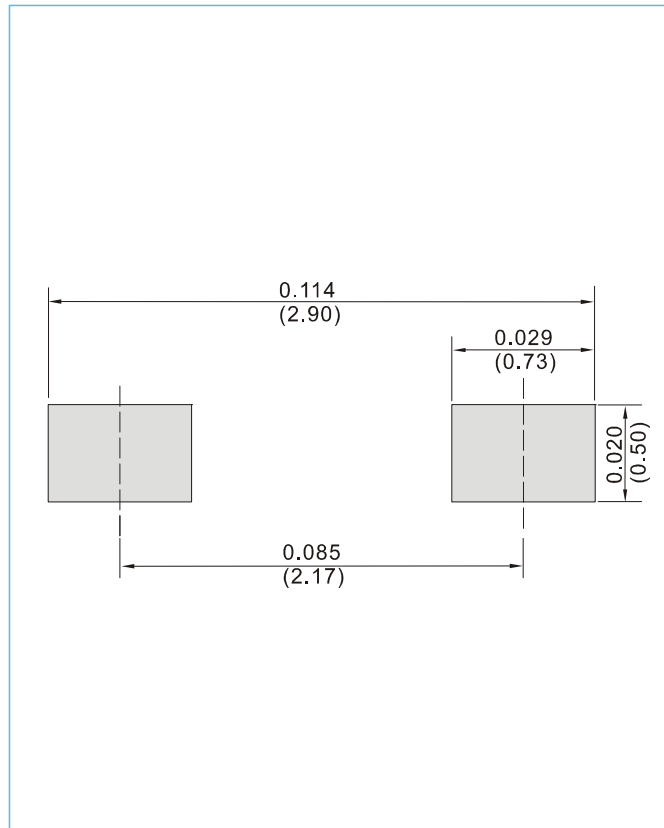


## PDZ4.7B-AU ~ PDZ36B-AU

### 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**



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