



# PZ12CHEWS-AU SERIES

## SURFACE MOUNT SILICON ZENER DIODES

**VOLTAGE** 12~15 Volt **POWER** 500 mWatt

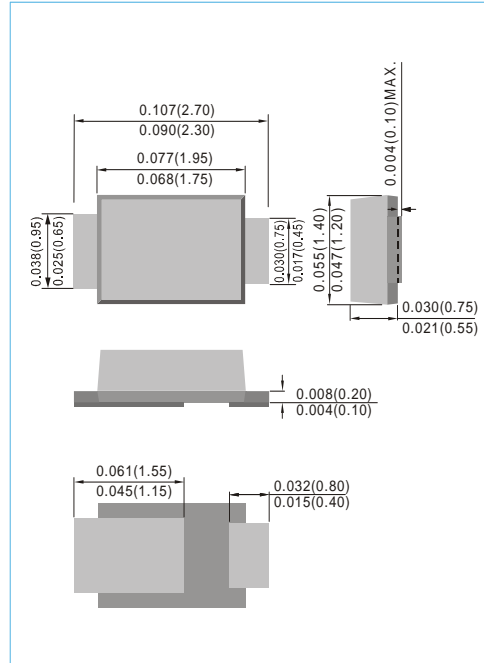
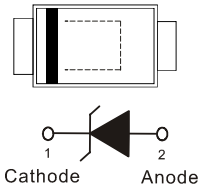
**SOD-323HE** Unit : inch(mm)

### FEATURES

- Planar Die construction
- Ideally Suited for Automated Assembly Processes
- Acquire quality system certificate : TS16949
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

- Case: SOD-323HE, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Approx. Weight: 0.0002 ounce, 0.005 gram



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

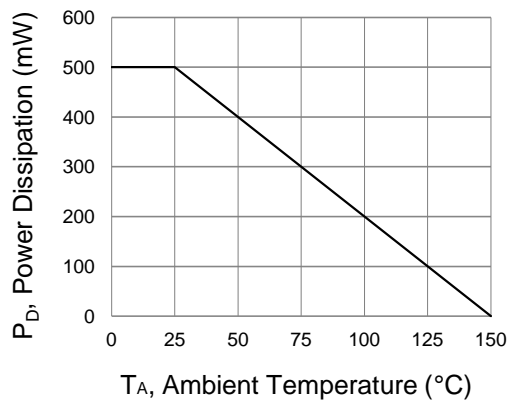
Parameter	Symbol	Value	Units
Maximum Forward Voltage at 100mA	$V_F$	1.2	V
Power Dissipation	$P_D$	500	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{\theta JA}$	250	$^{\circ}C/W$
Operating Junction and Storage Temperature Range	$T_{J}, T_{STG}$	-55 to +150	$^{\circ}C$

Part Number	Nominal Zener Voltage			Max. Zener Impedance				Max Reverse Leakage Current		Marking Code
	$V_Z @ I_{ZT}$			$Z_{ZT} @ I_{ZT}$		$Z_{ZK} @ I_{ZK}$		$I_R @ V_R$		
	Nom. V	Min. V	Max. V	$\Omega$	mA	$\Omega$	mA	$\mu A$	V	
PZ12CHEWS-AU	12	11.4	12.7	20	5	150	1	0.1	8	CZH
PZ15CHEWS-AU	15	14.25	15.75	15	5	200	1	0.1	10.5	CZK

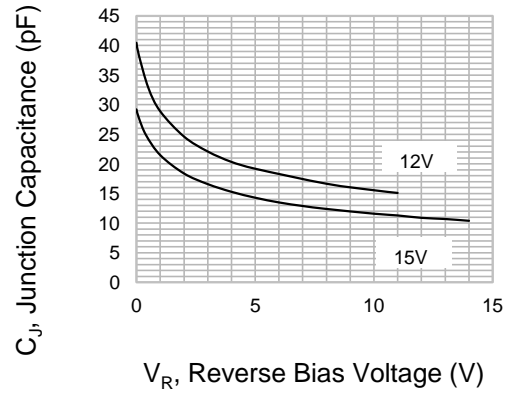
NOTE : 1. Mounted on a FR4 PCB, single-sided copper, mini pad.



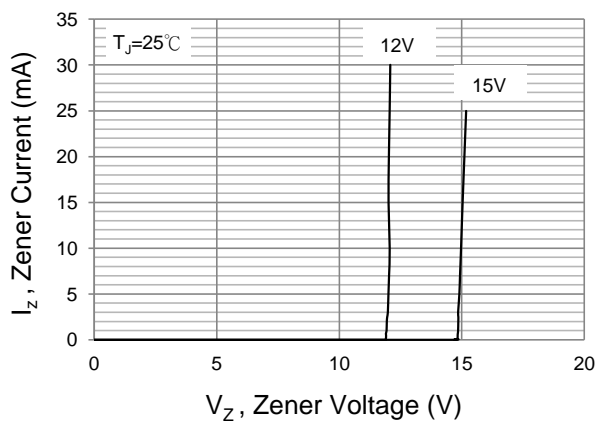
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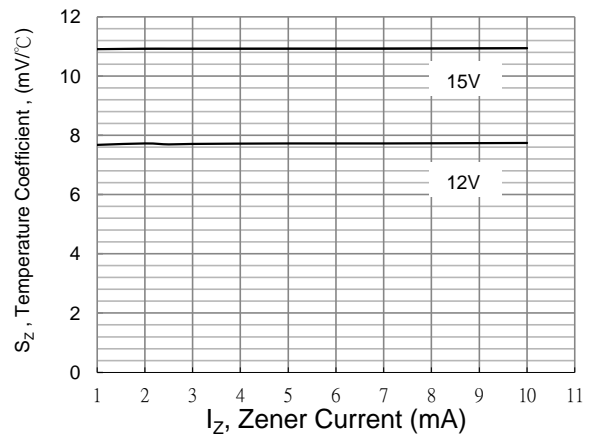
**Fig.1 Steady-State Power Derating Curve**



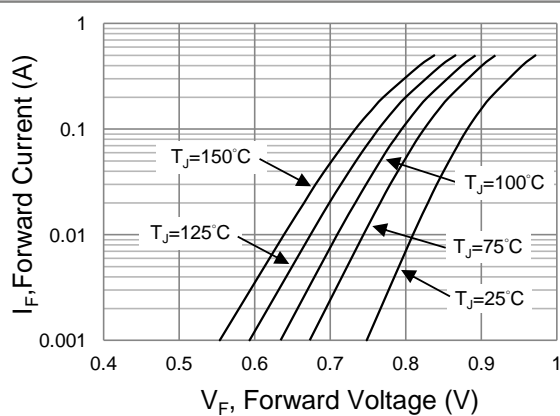
**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Zener Breakdown Characteristics**



**Fig.4 Temperature Coefficient as a Function of Working Current ; Typical values**



**Fig.5 Typical Forward Characteristics**

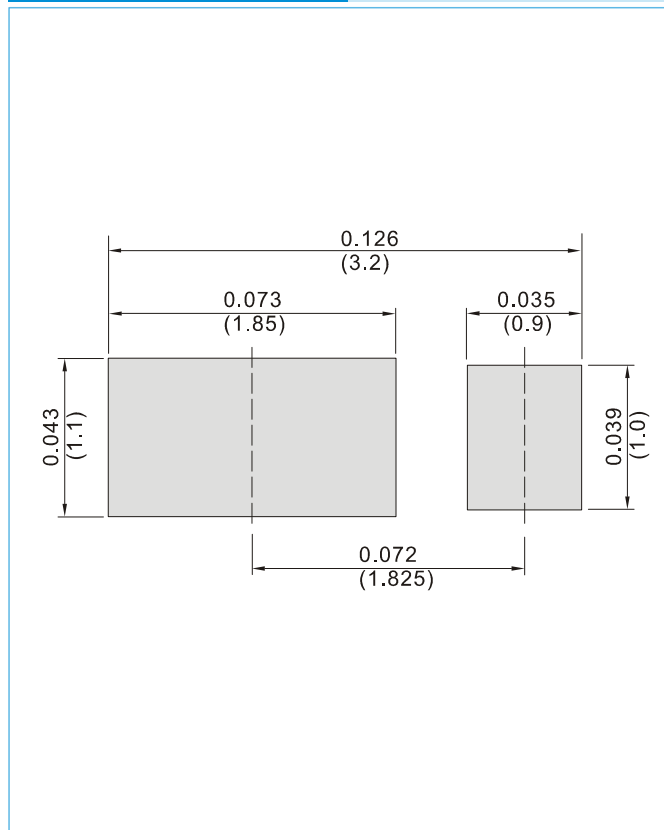


## PZ12CHEWS-AU SERIES

### MOUNTING PAD LAYOUT

SOD-323HE

Unit : inch(mm)



### ORDER INFORMATION

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



## PZ12CHEWS-AU SERIES

### Part No\_packing code\_Version

PZ12CHEWS-AU\_R1\_000A1

PZ12CHEWS-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 type	Packing Code <b>XX</b>			Version Code <b>XXXXX</b>		
	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>			



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