PZ11CHEWS SERIES

SURFACE MOUNT SILICON ZENER DIODES

| VOLTAGE | 11~16 Volt | POWER | 500 mWatt |

SOD-323HE

Unit : inch(mm)

FEATURES

- Planar Die construction
- Ideally Suited for Automated Assembly Processes
- 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

1 Cathode   2 Anode
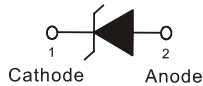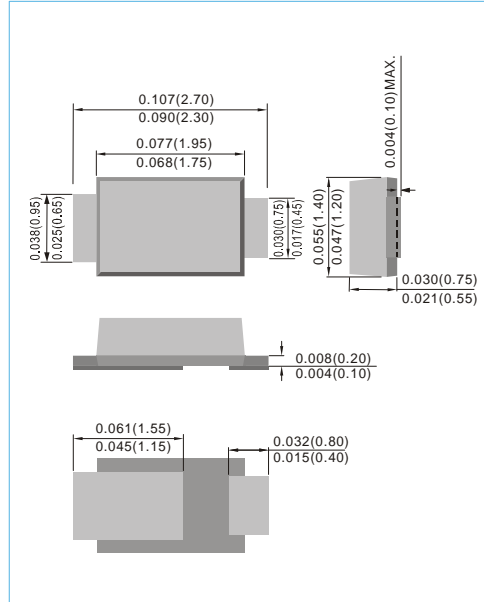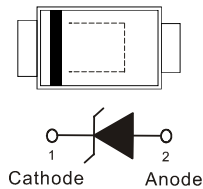
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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	°C/W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150	°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	Ω	mA	Ω	mA	μA	V	
PZ11CHEWS	11	10.45	11.55	20	5	70	1	0.1	8	CZG
PZ12CHEWS	12	11.4	12.7	20	5	150	1	0.1	8	CZH
PZ15CHEWS	15	14.25	15.75	15	5	200	1	0.1	10.5	CZK
PZ16CHEWS	16	15.2	16.8	20	5	200	1	0.1	11.2	CZL

NOTE : 1. Mounted on a FR4 PCB, single-sided copper, mini pad.
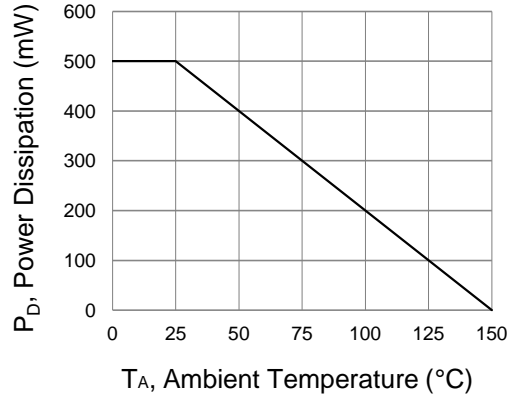
PZ11CHEWS SERIES

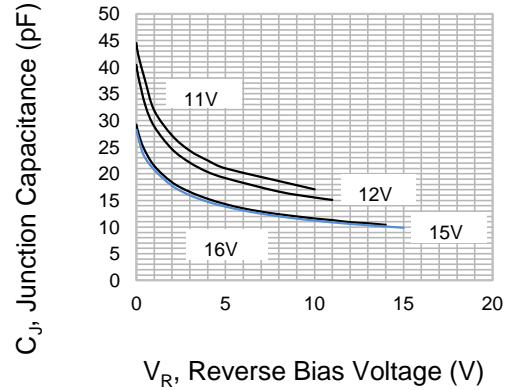
Fig.1 Steady-State Power Derating Curve

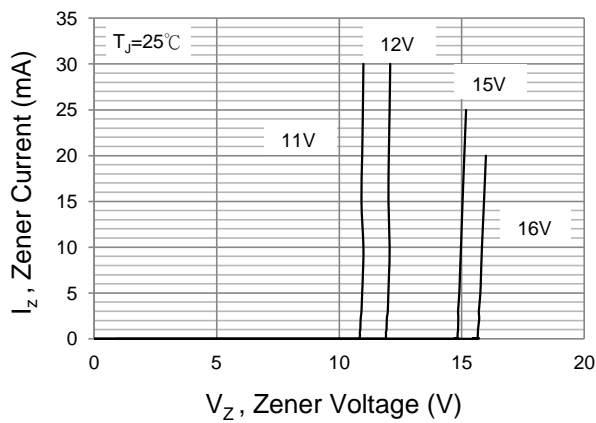**Fig.2 Typical Junction Capacitance**

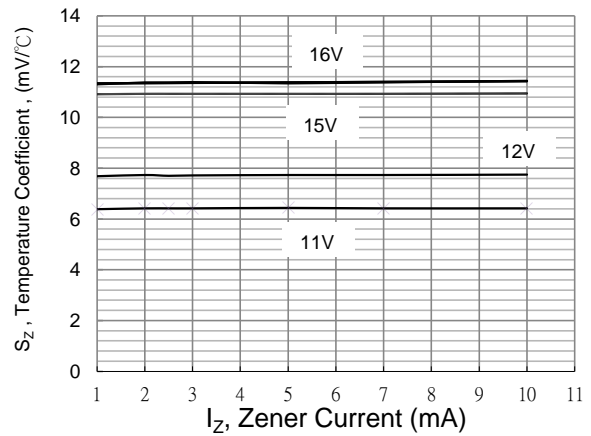**Fig.3 Typical Zener Breakdown Characteristics**

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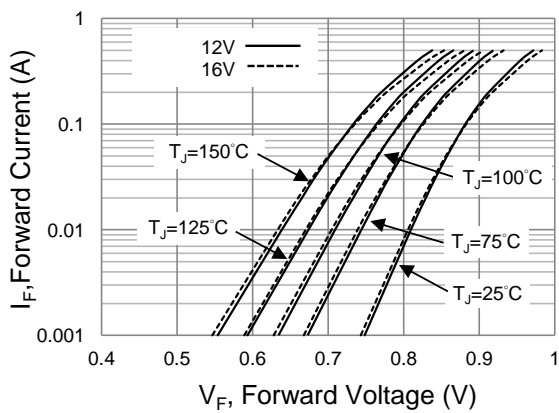Function of Working Current ; Typical values**

Fig.5 Typical Forward Characteristics

PZ11CHEWS SERIES

MOUNTING PAD LAYOUT

SOD-323HE   Unit：inch(mm)


```
          0.126
          (3.2)
    0.073              0.035
    (1.85)             (0.9)

0.043                      0.039
(1.1)                      (1.0)

          0.072
          (1.825)
```
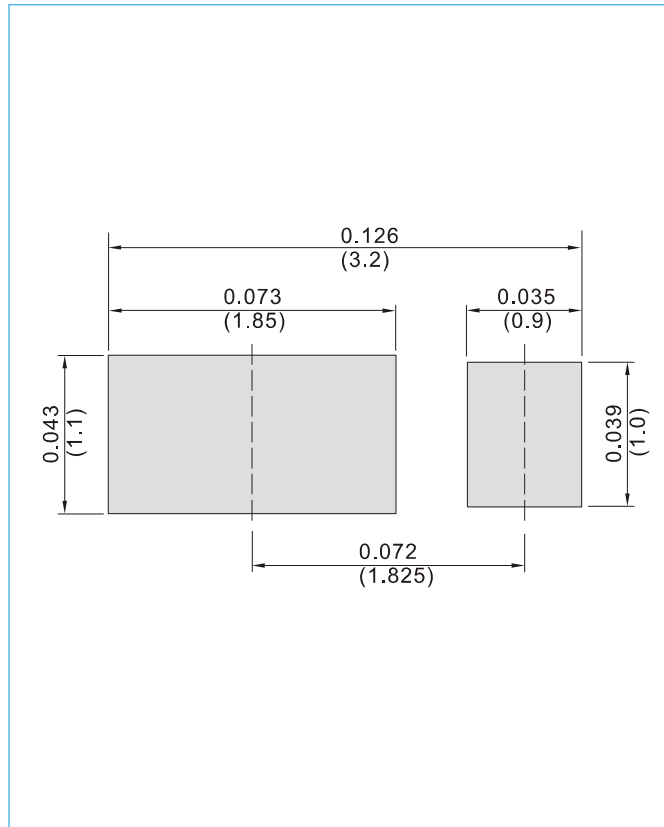
ORDER INFORMATION

• Packing information

  T/R - 12K per 13" plastic Reel

  T/R - 5K per 7" plastic Reel

Part No_packing code_Version

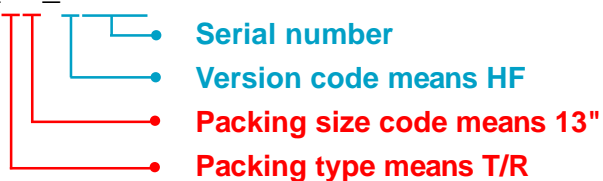PZ11CHEWS_R1_00001

PZ11CHEWS_R2_00001

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 XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th 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			

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