



PZ15CHEWS PZ16CHEWS

SURFACE MOUNT SILICON ZENER DIODES

VOLTAGE 15~16 Volts **POWER** 500 mWatts

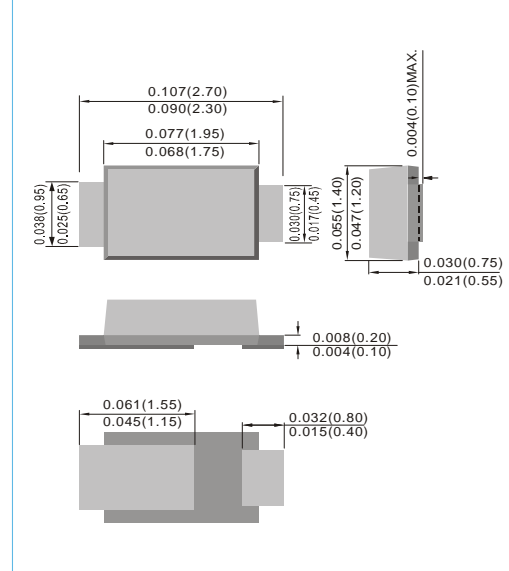
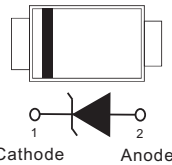
SOD-323HE Unit : inch(mm)

FEATURES

- Planar Die construction
- Ideally Suited for Automated Assembly Processes
- Lead free in comply with EU RoHS 2011/65/EU directives
- 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: 0.0006 ounce, 0.0185 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

| Parameter | Symbol | Value | Units |
|--|-----------------|-------------|---------------|
| Power Dissipation | P_D | 500 | mW |
| Thermal Resistance, Junction to Ambient Air (Note 1) | $P_{\theta JA}$ | 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 | Ω | mA | Ω | mA | μA | V | |
| 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 an FR4 PCB, single-sided copper, mini pad.



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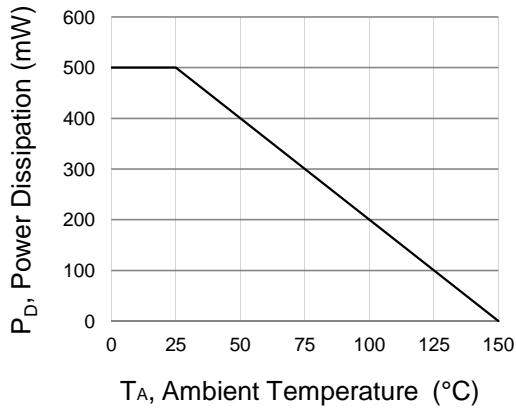


Fig.1 Steady-State Power Derating Curve

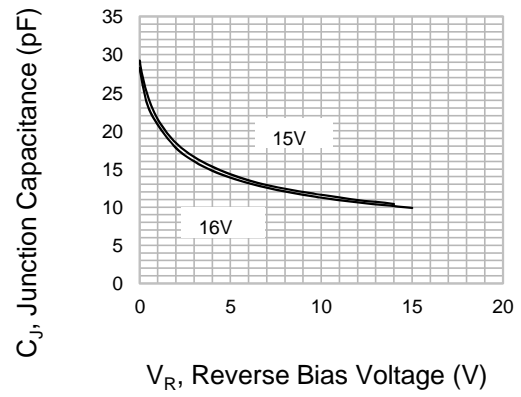


Fig.2 Typical Junction Capacitance

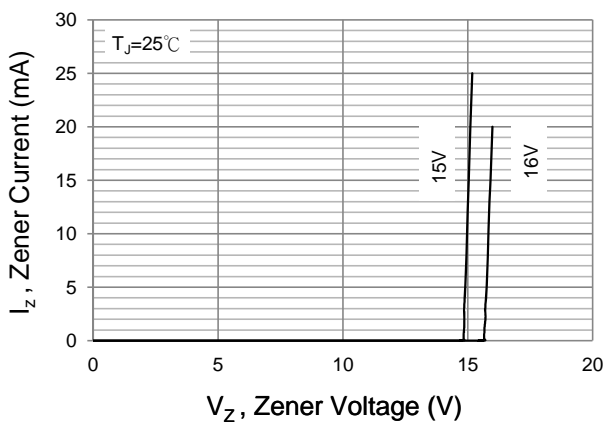


Fig.3 Typical Zener Breakdown Characteristics

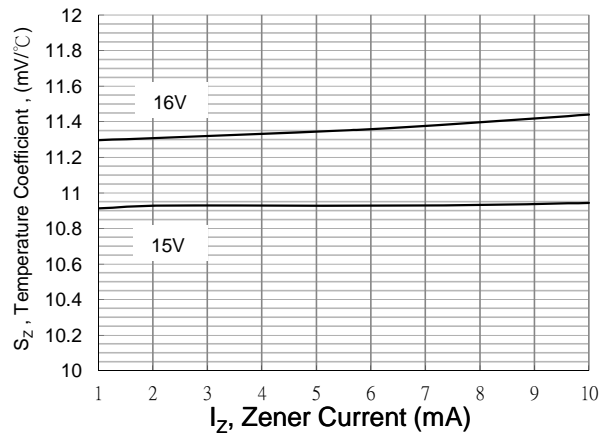


Fig.4 Temperature Coefficient as a Function of Working Current ; Typical values

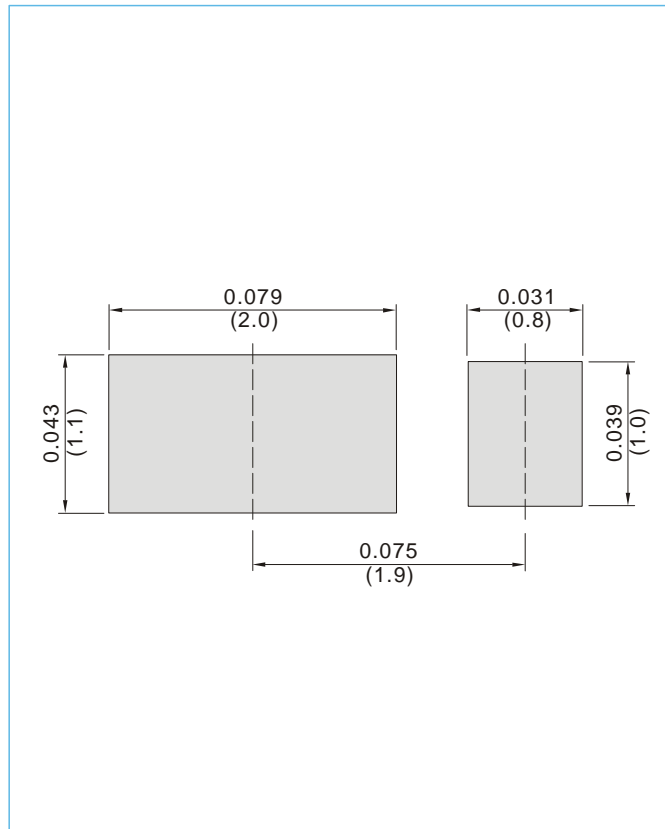


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MOUNTING PAD LAYOUT

SOD-323HE

Unit : inch(mm)



ORDER INFORMATION

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



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Part No_packing code_Version

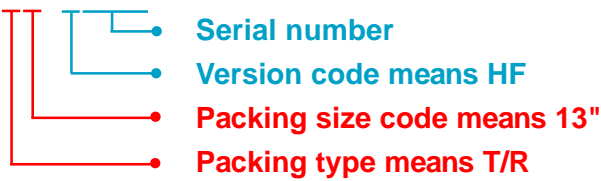
PZ15CHEWS_R1_00001

PZ15CHEWS_R2_00001

For example :

RB500V-40 **R2** **00001**

Part No.



| Packing Code XX | | | | Version Code XXXXX | | |
|--------------------------------------|----------------------|----------------------------------|----------------------|---------------------------|----------------------|---------------------------------------|
| 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 | | | |



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