



#### SURFACE MOUNT SILICON ZENER DIODES SOD-323HE Unit:inch(mm) VOLTAGE 5.1 Volt POWER 500 mWatt **FEATURES** 0.004(0.10)MAX. 0.107(2.70) · Planar Die construction 0.077(1.95) • 500mW Power Dissipation · Ideally Suited for Automated Assembly Processes 0.030(0.75) 0.017(0.45) 0.047(1.20) 0.038(0.95) · Lead free in comply with EU RoHS 2011/65/EU directives • Green molding compound as per IEC61249 Std. . (Halogen Free) 0.030(0.75) **MECHANICAL DATA** · Case: SOD-323HE, Molded Plastic <u>+ 0.008(0.20)</u> + 0.004(0.10) · Terminals: Solderable per MIL-STD-750, Method 2026 · Polarity: See Diagram Below 0.061(1.55) 0.032(0.80) Approx. Weight: 0.0002 ounce, 0.005 gram Cathode Anode

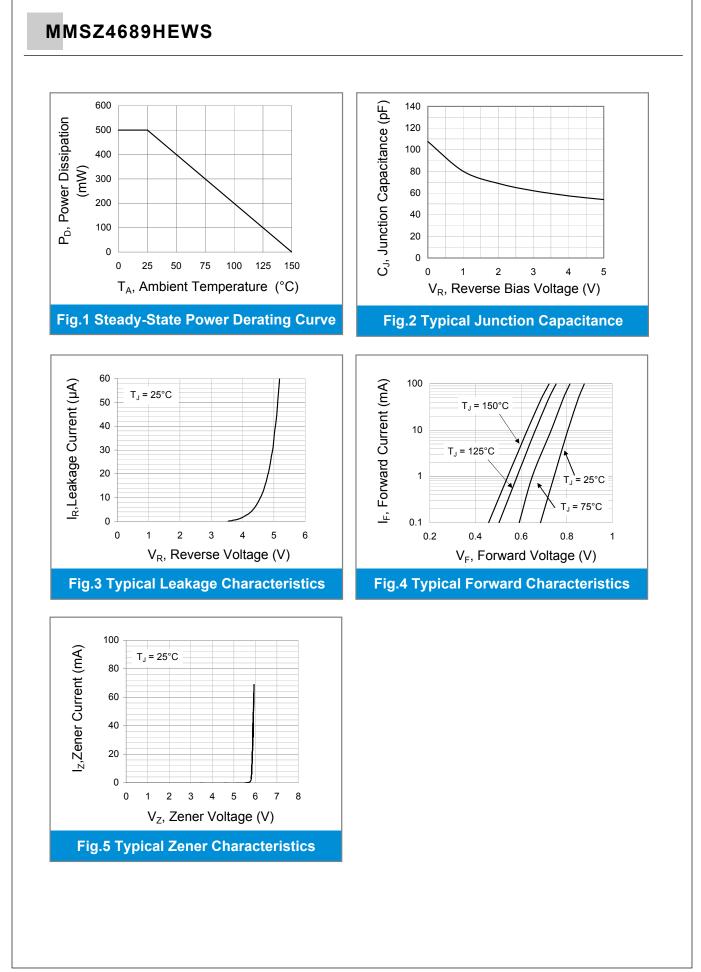
#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

| Parameter  | Symbol   | Value       | Units |
|--|--|-------------|-------|
| Maximum Power Dissipation (Notes A)              | P <sub>D</sub>                                 | 500         | mW    |
| Typical Thermal Resistance (Notes A)             | $R_{_{	ext{	ext{	ext{	ext{	ext{	ext{	ext{	ext$ | 250<br>150  | °C/W  |
| Operating Junction and Storage Temperature Range | T_j,T <sub>stg</sub>                           | -55 to +150 | °C    |

| Dart Number  | Nominal Zener Voltage |          |        | Max. Zener<br>Impedance | Max Reverse<br>Leakage Current |      | Marking         |
|--------------|-----------------------|----------|--------|-------------------------|--------------------------------|------|-----------------|
| Part Number  |                       | Vz @ Izt |        | Izт                     | Ir (                           | ) Vr | Marking<br>Code |
|              | Nom. V                | Min. V   | Max. V | mA                      | μA                             | V    |                 |
| MMSZ4689HEWS | 5.1                   | 4.85     | 5.36   | 0.05                    | 10                             | 3    | HCU             |

#### NOTES:

A. Mounted FR-5 PCB with minimum recommend pad layout.(PJ\_004 REV.0)



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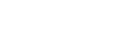
#### ORDER INFORMATION

Packing information

T/R - 12K per 13" plastic Reel

T/R - 5K per 7" plastic Reel





#### Part No\_packing code\_Version

MMSZ4689HEWS\_R1\_00001 MMSZ4689HEWS\_R2\_00001

## For example :

#### RB500V-40\_R2\_00001



| Packing Code XX                         |                      |                                     |                      |            | Version Code XXXXX   |                                       |  |
|---|----------------------|-------------------------------------|----------------------|------------|----------------------|---------------------------------------|--|
| 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<br>(T/B)        | Α                    | N/A                                 | 0                    | HF         | 0                    | serial number                         |  |
| Tape and Reel<br>(T/R)                  | R                    | 7"                                  | 1                    | RoHS       | 1                    | serial number                         |  |
| Bulk Packing<br>(B/P)                   | В                    | 13"                                 | 2                    |            |                      |                                       |  |
| Tube Packing<br>(T/P)                   | т                    | 26mm                                | X                    |            |                      |                                       |  |
| Tape and Reel (Right Oriented)<br>(TRR) | S                    | 52mm                                | Y                    |            |                      |                                       |  |
| Tape and Reel (Left Oriented)<br>(TRL)  | L                    | PANASERT T/B CATHODE UP<br>(PBCU)   | U                    |            |                      |                                       |  |
| FORMING                                 | F                    | PANASERT T/B CATHODE DOWN<br>(PBCD) | D                    |            |                      |                                       |  |





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