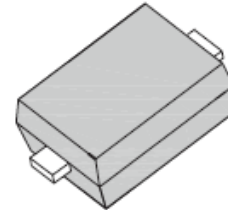


500mW Two Terminals SMD Zener Diodes

Features

- Silicon Planar Zener Construction
- 500mW Power Dissipation
- Zener Voltage 3.6v to 43v
- High Temperature Soldering Guaranteed:
250 °C/10 Seconds Set Terminals
- RoHS Compliance



SOD-123F



Mechanical Data

| | |
|-----------------------|---|
| Case: | SOD-123F, molded plastic |
| Epoxy: | Plastic package has UL flammability 94V-0 |
| Terminals: | Solderable per MIL-STD-202G, Method 208 |
| Polarity: | Color band denotes cathode |
| Approx Weight: | 0.01 grams |

Maximum Ratings *(T_{Ambient}=25°C unless noted otherwise)*

| Symbol | Description | Value | Unit | Conditions |
|-------------------------|--|------------|------|--------------------------------|
| P_{tot} | Power Dissipation | 500 | mW | T _L =75 °C (Note 1) |
| R_{thJA} | Thermal Resistance Junction to Ambient Air | 340 | °C/W | (Note 1) |
| T_J | Max. Junction Temperature | 150 | °C | |
| T_{STG} | Storage Temperature Range | -55 to 150 | °C | |

Note: 1. FR-4 or FR-5 board with minimum recommended solder pad layout.

500mW Two Terminals SMD Zener Diodes

MMSZ4685-F - MMSZ4717-F

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

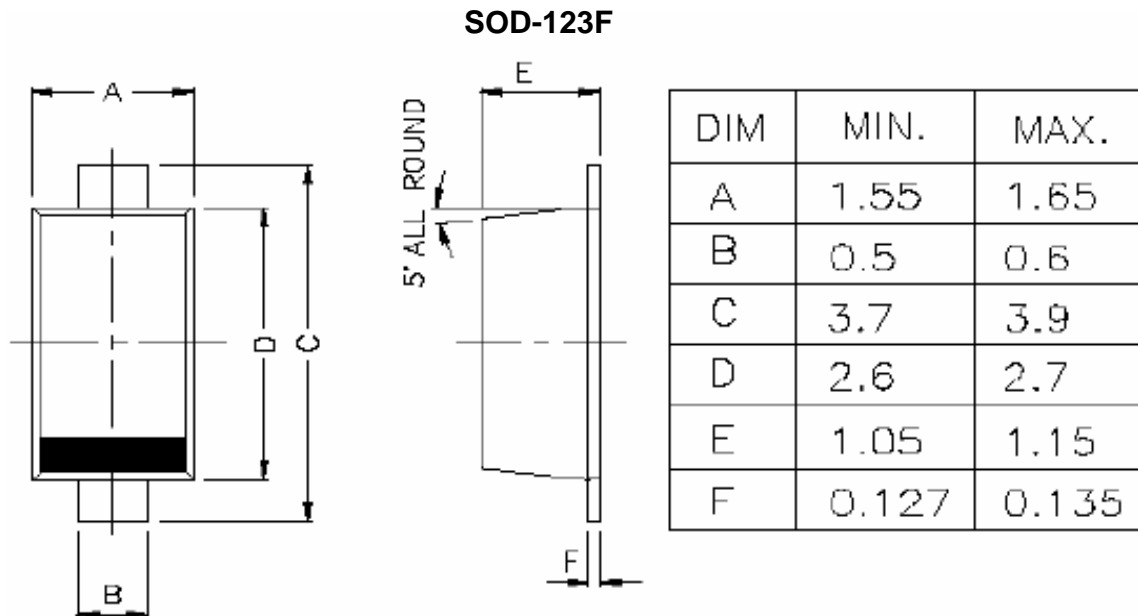
| Part NO. | Marking Code | *Nominal Zener Voltage @ I _{ZT} | | | Test Current | Max. Reverse Leakage Current I _R @ V _R | |
|------------|--------------|--|------|------|----------------------|--|--------------------|
| | | V _Z (V) | | | I _{ZT} (mA) | I _R (μA) | V _R (V) |
| | | Nom. | Min. | Max. | | | |
| MMSZ4685-F | CM | 3.6 | 3.42 | 3.78 | 0.05 | 7.50 | 2.0 |
| MMSZ4686-F | CN | 3.9 | 3.71 | 4.10 | 0.05 | 5.00 | 2.0 |
| MMSZ4687-F | CP | 4.3 | 4.09 | 4.52 | 0.05 | 4.00 | 2.0 |
| MMSZ4688-F | CT | 4.7 | 4.47 | 4.94 | 0.05 | 10.0 | 3.0 |
| MMSZ4689-F | CU | 5.1 | 4.85 | 5.36 | 0.05 | 10.0 | 3.0 |
| MMSZ4690-F | CV | 5.6 | 5.32 | 5.88 | 0.05 | 10.0 | 4.0 |
| MMSZ4691-F | CA | 6.2 | 5.89 | 6.51 | 0.05 | 10.0 | 5.0 |
| MMSZ4692-F | CX | 6.8 | 6.46 | 7.14 | 0.05 | 10.0 | 5.1 |
| MMSZ4693-F | CY | 7.5 | 7.13 | 7.88 | 0.05 | 10.0 | 5.7 |
| MMSZ4694-F | CZ | 8.2 | 7.79 | 8.61 | 0.05 | 1.00 | 6.2 |
| MMSZ4695-F | DC | 8.7 | 8.27 | 9.14 | 0.05 | 1.00 | 6.6 |
| MMSZ4696-F | DD | 9.1 | 8.65 | 9.56 | 0.05 | 1.00 | 6.9 |
| MMSZ4697-F | DE | 10 | 9.5 | 10.5 | 0.05 | 1.00 | 7.6 |
| MMSZ4698-F | DF | 11 | 10.5 | 11.6 | 0.05 | 0.05 | 8.4 |
| MMSZ4699-F | DH | 12 | 11.4 | 12.6 | 0.05 | 0.05 | 9.1 |
| MMSZ4700-F | DJ | 13 | 12.4 | 13.7 | 0.05 | 0.05 | 9.8 |
| MMSZ4701-F | DK | 14 | 13.3 | 14.7 | 0.05 | 0.05 | 10.6 |
| MMSZ4702-F | DM | 15 | 14.3 | 15.8 | 0.05 | 0.05 | 11.4 |
| MMSZ4703-F | DN | 16 | 15.2 | 16.8 | 0.05 | 0.05 | 12.1 |
| MMSZ4704-F | DP | 17 | 16.2 | 17.9 | 0.05 | 0.05 | 12.9 |
| MMSZ4705-F | DT | 18 | 17.1 | 18.9 | 0.05 | 0.05 | 13.6 |
| MMSZ4706-F | DU | 19 | 18.1 | 20.0 | 0.05 | 0.05 | 14.4 |
| MMSZ4707-F | DV | 20 | 19.0 | 21.0 | 0.05 | 0.01 | 15.2 |
| MMSZ4708-F | DA | 22 | 20.9 | 23.1 | 0.05 | 0.01 | 16.7 |
| MMSZ4709-F | DZ | 24 | 22.8 | 25.2 | 0.05 | 0.01 | 18.2 |
| MMSZ4710-F | DY | 25 | 23.8 | 26.3 | 0.05 | 0.01 | 19.0 |
| MMSZ4711-F | EA | 27 | 25.7 | 28.4 | 0.05 | 0.01 | 20.4 |
| MMSZ4712-F | EC | 28 | 26.6 | 29.4 | 0.05 | 0.01 | 21.2 |
| MMSZ4713-F | ED | 30 | 28.5 | 31.5 | 0.05 | 0.01 | 22.8 |
| MMSZ4714-F | EE | 33 | 31.4 | 34.7 | 0.05 | 0.01 | 25.0 |
| MMSZ4715-F | EF | 36 | 34.2 | 37.8 | 0.05 | 0.01 | 27.3 |
| MMSZ4716-F | EH | 39 | 37.1 | 41.0 | 0.05 | 0.01 | 29.6 |
| MMSZ4717-F | EJ | 43 | 40.9 | 45.2 | 0.05 | 0.01 | 32.6 |

*Measured with device junction in thermal equilibrium

500mW Two Terminals SMD Zener Diodes

MMSZ4685-F - MMSZ4717-F

Dimensions in mm



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