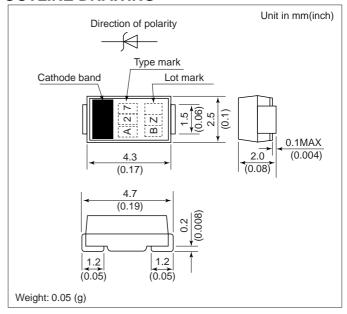
FEATURES

- High transient reverse power capability suitable for protecting automobile electronic components etc.
- High heat-resistant due to glass passivation.

OUTLINE DRAWING



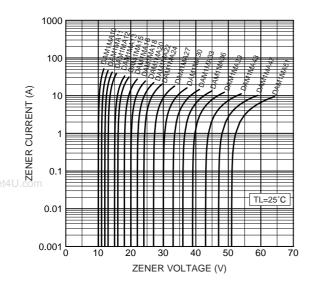
ABSOLUTE MAXIMUM RATINGS

| Items | Symbols | Units | Ratings | |
|---|------------------|-------|---|--|
| Non-Repetitive Peak Reverse One- Cycle Dissipation | P _{RSM} | W | 600(Rectangular pulse t=0.1ms T _i =25°C start) | |
| Operating Junction Temperature | T _j | °C | -40 ~ +150 | |
| Storage Temperature | T _{stg} | °C | -40 ~ +150 | |
| DC Reverse Voltage | V_{DC} | V | Refer to characteristics column | |

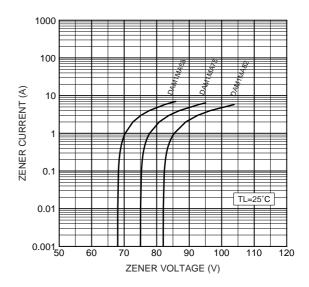
| Type Rev | DC Reverse Voltage | | Maximum | | | | |
|----------|--------------------------|------------|------------|---|----------------------|--------------------------|--------------------|
| | | Zener Volt | age Vz (V) | Maximum Dynamic Impedance Zz (ohm) | Test Current Iz (mA) | Reverse Current | |
| | V _{DC} (V) | Minimum | Maximum | | | Ι _{RRM} (μΑ) | V _R (V) |
| DAM1MA10 | 7 | 9.4 | 10.6 | 15 | 25 | 10 | 7 |
| DAM1MA11 | 8 | 10.4 | 11.6 | 15 | 25 | 10 | 8 |
| DAM1MA12 | 9 | 11.4 | 12.7 | 15 | 25 | 10 | 9 |
| DAM1MA13 | 10 | 12.4 | 14.1 | 15 | 25 | 10 | 10 |
| DAM1MA15 | 11 | 13.5 | 15.6 | 15 | 25 | 10 | 11 |
| DAM1MA16 | 12 | 15.3 | 17.1 | 15 | 15 | 10 | 12 |
| DAM1MA18 | 13 | 16.8 | 19.1 | 15 | 15 | 10 | 13 |
| DAM1MA20 | 14 | 18.8 | 21.2 | 15 | 15 | 10 | 14 |
| DAM1MA22 | 16 | 20.8 | 23.3 | 15 | 15 | 10 | 16 |
| DAM1MA24 | 18 | 22.7 | 25.6 | 15 | 10 | 10 | 18 |
| DAM1MA27 | 20 | 25.1 | 28.9 | 15 | 10 | 10 | 20 |
| DAM1MA30 | 22 | 28.0 | 32.0 | 15 | 10 | 10 | 22 |
| DAM1MA33 | 24 | 31.0 | 35.0 | 15 | 10 | 10 | 24 |
| DAM1MA36 | 26 | 33.4 | 38.6 | 15 | 10 | 10 | 26 |
| DAM1MA39 | 28 | 36.1 | 41.9 | 30 | 10 | 10 | 28 |
| DAM1MA43 | 31 | 39.8 | 46.2 | 30 | 6 | 10 | 31 |
| DAM1MA47 | 34 | 43.3 | 50.7 | 30 | 6 | 10 | 34 |
| DAM1MA51 | 37 | 46.9 | 55.1 | 30 | 6 | 10 | 37 |
| DAM1MA68 | 49 | 61.2 | 74.8 | 60 | 4 | 5 | 55 |
| DAM1MA75 | 54 | 67.5 | 82.5 | 60 | 4 | 5 | 61 |
| DAM1MA82 | 59 | 73.8 | 90.2 | 60 | 3 | 5 | 66 |

DAM1MA

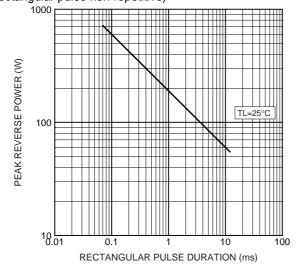
Typical zener characteristics (Vz:10~51V)



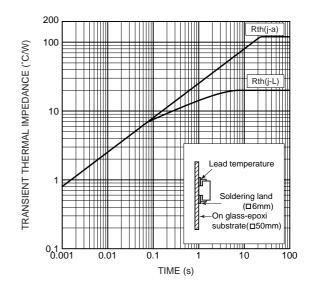
Typical zener characteristics (Vz:68~82V)



Typical reverse power characteristic (Rectangular pulse non-repetitive)



Transient thermal impedance



HITACHI POWER SEMICONDUCTORS

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