

AMS-FOB

500mA 8.0kV 40nS

Ultra-Fast Recovery High Voltage Silicon Rectifier Diodes

INTRODUCE:

AMS high voltage silicon rectifier diode is made of high quality glass passivated chip and high reliability epoxy resin sealing structure.

FEATURES:

1. High reliability design.
2. High voltage, large current.
3. High frequency, Fast recovery.
4. Conform to RoHS and SGS.

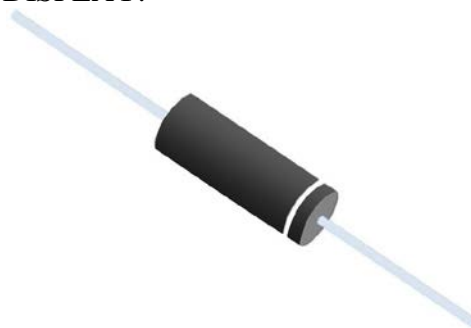
APPLICATIONS:

1. High voltage multiplier circuit
2. High frequency switching power supply
3. General purpose high voltage rectifier.
4. Laser power supply medical equipment

MECHANICAL DATA:

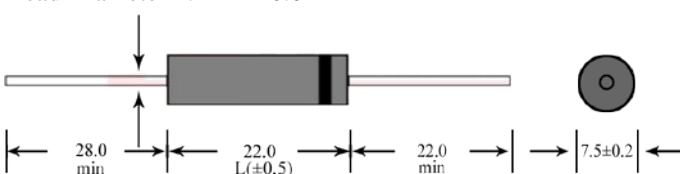
1. Case: epoxy resin molding.
2. Terminal: welding axis.
3. Net weight: 2.55 grams (approx).

SHAPE DISPLAY:



SIZE: (Unit:mm) NAME: DO-722

Lead Diameter 1.2mm ±0.02



Unit:mm

MAXIMUM RATINGS AND CHARACTERISTICS: (Absolute Maximum Ratings)

| Items | Symbols | Condition | Data Value | Units |
|--------------------------------------|------------|--|------------|-------------|
| Repetitive Peak Reverse Voltage | V_{RRM} | $T_A=25^{\circ}C$ | 8.0 | kV |
| Non-Repetitive Peak Reverse Voltage | V_{RSM} | $T_A=25^{\circ}C$ | -- | kV |
| Average Forward Current Maximum | I_{FAVM} | $T_A=55^{\circ}C$ | 500 | mA |
| | | $T_{OIL}=55^{\circ}C$ | -- | mA |
| Non-Repetitive Forward Surge Current | I_{FSM} | $T_A=25^{\circ}C$; 50Hz Half-Sine Wave; 8.3mS | 20 | A |
| Junction Temperature | T_J | | 150 | $^{\circ}C$ |
| Allowable Operation Case Temperature | T_c | | -40~+150 | $^{\circ}C$ |
| Storage Temperature | T_{STG} | | -40~+150 | $^{\circ}C$ |

ELECTRICAL CHARACTERISTICS: $T_A=25^{\circ}C$ (Unless Otherwise Specified)

| Items | Symbols | Condition | Data Value | Units |
|-------------------------------|----------|--|------------|---------|
| Maximum Forward Voltage Drop | V_{FM} | at $25^{\circ}C$; at I_{FAVM} | 12 | V |
| Maximum Reverse Current | I_{R1} | at $25^{\circ}C$; at V_{RRM} | 0.5 | μA |
| | I_{R2} | at $125^{\circ}C$; at V_{RRM} | 50 | μA |
| Maximum Reverse Recovery Time | T_{RR} | at $25^{\circ}C$; $I_F=0.5A$; $I_R=I_{FAVM}$; $I_{RR}=0.25mA$ | 40 | nS |
| Junction Capacitance | C_J | at $25^{\circ}C$; $V_R=0V$; $f=1MHz$ | 7.5 | pF |

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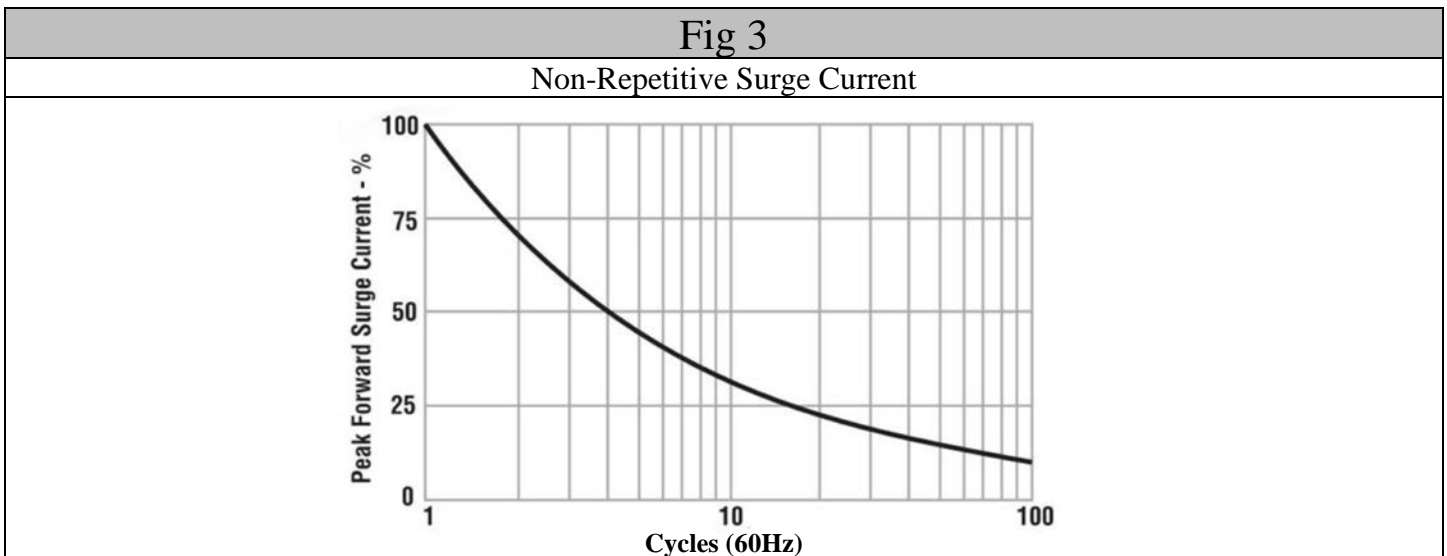
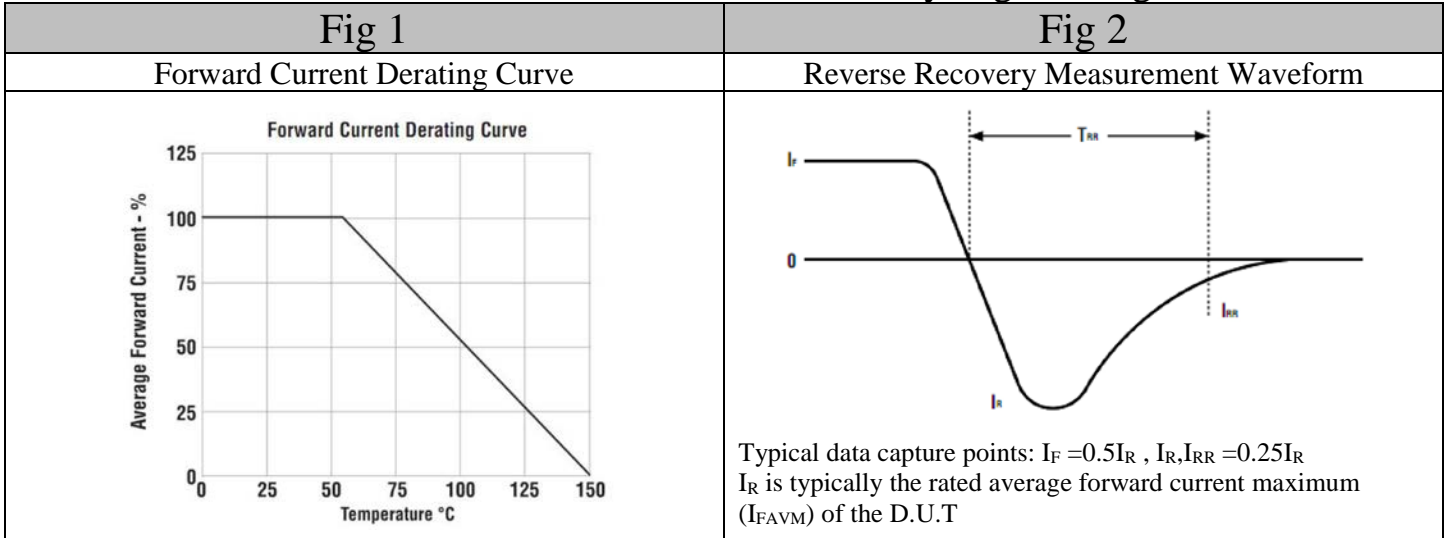
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DEKRA Certification Inc.
 AS9100C and ISO 9001:2008
 Certificate No. 131519.01



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 Ultra-Fast Recovery High Voltage Silicon Rectifier



| | Type | Code | Cathode Mark |
|---------|------|------|---|
| Marking | | |  |

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