

四川旭茂微科技有限公司 Sichuan Xu Mao Micro Technology Co., Ltd

RS1M

Fast recovery diode Reverse Voltage1000v Forward current-1A

Features

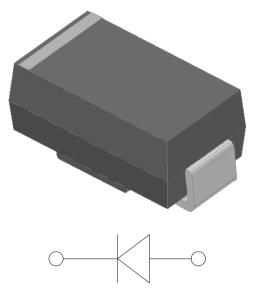
Glass passivated chip High surge current capability Ldeal for surface mounted applications Low power loss, high efficiency Plastic Case Material has UL Flammability

Mechanical Data

Package: SMA Terminals:Tin Plated leads, solderable per Mil-STD-750 Method 2026 Polarity: As marked Molding compound meets UL 94 V-0 flammability rating, ROHS-compliant

Maximum Ratings (Ta=25°C Unless otherwise

| Type Number | SYMBOL | RS1M | Umit | |
|--|--------------------|-------|------------------|--|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 1000 | V | |
| Maximum RMS Voltage | V _{RMS} | 700 | V | |
| Maximum DC Blocking Voltage | V _{DC} | 1000 | V | |
| Maximum Average Forward Rectified Current at TL = 100 $^\circ\!\!\!\!\!^{\circ}$ | IO _(AV) | 1.0 | А | |
| Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated | IFSM | 25.0 | A | |
| Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25 $^\circ\!\!\mathbb{C}$ | | 50.0 | A | |
| Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode | l ² t | 2.6 | A ² S | |
| Maximum Forward Voltage at 1.0A DC | V _{FM} | 1.30 | V | |
| Maximum Reverse Current TA = 25°C | | 5.0 | uA | |
| at Rated DC Blocking Voltage TA = 100 $^\circ\!\mathrm{C}$ | IR | 100.0 | | |
| Maximum reverse recovery time | Trr | 500.0 | ns | |
| Typical Thermal Resistance Between junction and | R _{QJa} | 65.0 | °C/W | |
| Operating Junction Temperature Range | TJ | | °C | |
| Storage Temperature Range | T _{STG} | | °C | |

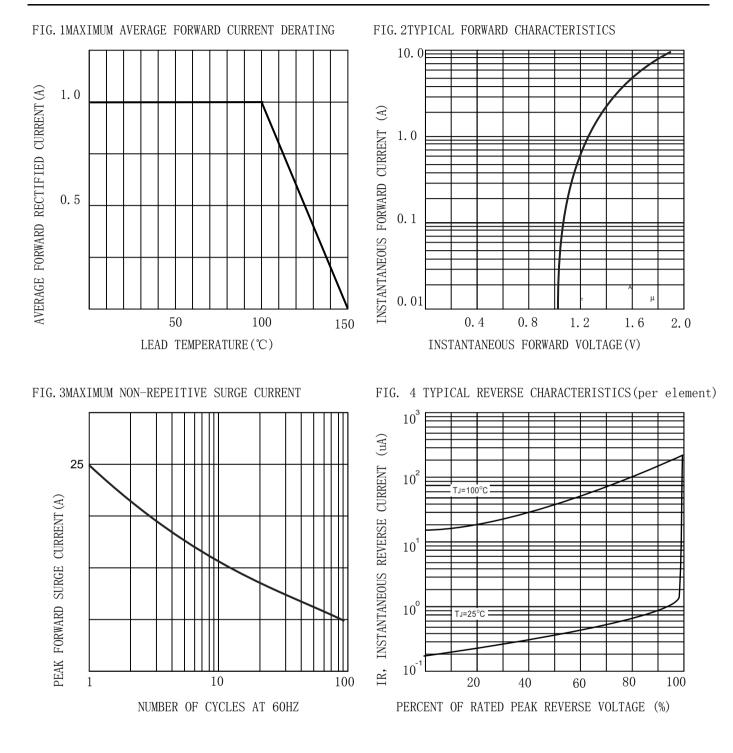




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MARKING INFORMATION

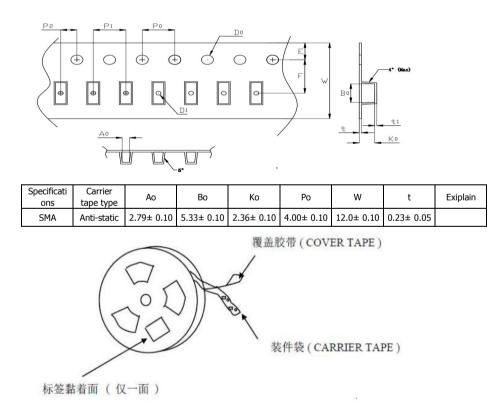


Section = Logo
**** = Date Code Marking
RS1M= Marking Code

Print according to customer request

PACKING REQUIRMENTS

Carrier tape packing



| DEVICE TYPE | Tape width | 11"Reel | | 11"Reel | | | |
|----------------|---------------|--------------------|-----------------|--------------------|--------------------|-----------------|--------------------|
| | | Q'TY/REEL (pcs) | BOX/CAR TOON | Q'TY/REEL (pcs) | Q'TY/REEL (pcs) | BOX/CAR TOON | Q'TY/REEL (pcs) |
| SMA | 12mm | 5000 | 20 | 100000 | 5000 | 18 | 90000 |

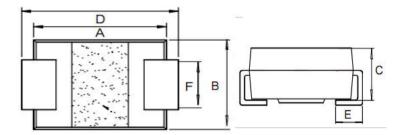


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RS1M

Outline Dimensions

SMA



| SMA | | | | | | |
|-----|--------|------|------|------|--|--|
| DIM | INCHES | | MM | | | |
| | MIN | MAX | MIN | MAX | | |
| А | 0.16 | 0.18 | 4.05 | 4.65 | | |
| В | 0.09 | 0.11 | 2.4 | 2.8 | | |
| С | 0.07 | 0.09 | 1.8 | 2.3 | | |
| D | 0.18 | 0.21 | 4.67 | 5.27 | | |
| Е | 0.04 | 0.06 | 1 | 1.4 | | |
| F | 0.05 | 0.06 | 1.2 | 1.6 | | |



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