MSKSEMI 美森科







TVC



TSS



MOV



GDT



PIFF

SD103AW-SD103CW

Product specification

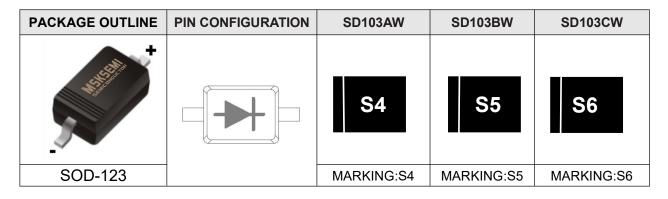




FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Negligible Reverse Recovery Time
- Low Capacitance

Reference News



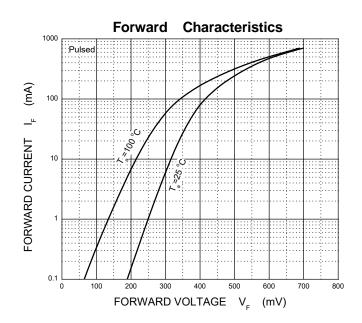
MAXIMUM RATINGS (Ta=25℃ unless otherwise noted)

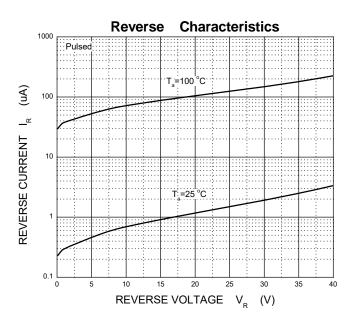
| Symbol | Downwater | Value | | | I I |
|---------------------|---|------------|---------|---------|------|
| | Parameter | SD103AW | SD103BW | SD103CW | Unit |
| V_{RRM} | Peak Repetitive Reverse Voltage | 40 | 30 | 20 | |
| V _{RWM} | Working Peak Reverse Voltage | 40 | 30 | 20 | V |
| V _{R(RMS)} | RMS Reverse Voltage | 28 | 21 | 14 | V |
| I _{FM} | Forward Continuous Current 350 | | | mA | |
| IFSM | Non-repetitive Peak Forward Surge Current@t= 8.3 ms 2 | | | Α | |
| P _D | Power Dissipation 400 | | 400 | | mW |
| R _{。JA} | Thermal Resistance from Junction to Ambient | | 250 | | |
| Tj | Operating Junction Temperature Range -40 ~ +125 | | | °C | |
| T_{stg} | Storage Temperature Range | -55 ~ +150 | | ℃ | |

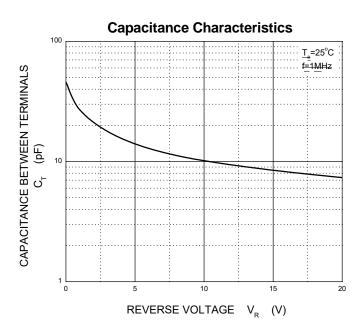
ELECTRICAL CHARACTERISTICS(Ta=25℃ unless otherwise specified)

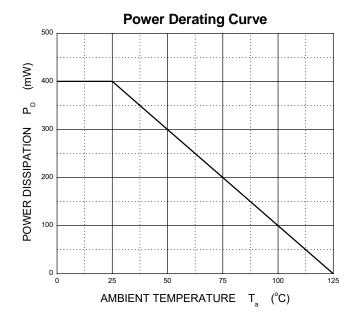
| Parameter | Symbol | Test conditions | | Min | Тур | Max | Unit |
|-----------------------|-------------------|--|------------------------|-----|-----|------|------|
| | | I _R =100μA | SD103AW | 40 | | | |
| Reverse voltage | V _(BR) | | SD103BW | 30 | | | V |
| | | | SD103CW | 20 | | | |
| _ | I _R | V _R =30V SD103AW | | | | _ | μА |
| Reverse current | | V _R =20V SD103BW | | | | 5 | |
| | | V _R =10V SD103CW | | | | | |
| Famous advertes as | VF | l=20mA | | | | 0.37 | |
| Forward voltage | | l⊧=200mA | | | | 0.6 | V |
| Total capacitance | Ctot | V _R =0V,f=1MHz | | | 50 | | pF |
| Reverse recovery time | t _{rr} | I _F = I _R =200mA, I _{rr} =0.1×I | _R , R∟=100Ω | | 10 | | ns |





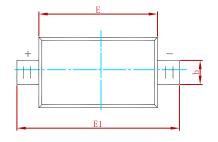


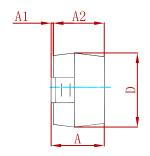


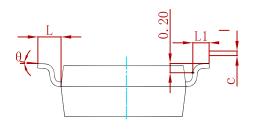




PACKAGE MECHANICAL DATA

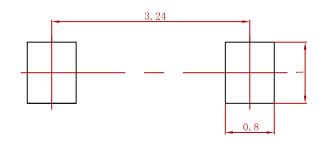






| Cumbal | Dimensions In Millimeters | | Dimensions In Inches | | |
|--------|---------------------------|-------|----------------------|-------|--|
| Symbol | Min | Max | Min | Max | |
| Α | 1.050 | 1.250 | 0.041 | 0.049 | |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 | |
| A2 | 1.050 | 1.150 | 0.041 | 0.045 | |
| b | 0.450 | 0.650 | 0.018 | 0.026 | |
| С | 0.080 | 0.150 | 0.003 | 0.006 | |
| D | 1.500 | 1.700 | 0.059 | 0.067 | |
| Е | 2.600 | 2.800 | 0.102 | 0.110 | |
| E1 | 3.550 | 3.850 | 0.140 | 0.152 | |
| L | 0.500 REF | | 0.020 REF | | |
| L1 | 0.250 | 0.450 | 0.010 | 0.018 | |
| θ | 0° | 8° | 0° | 8° | |

Suggested Pad Layout



Note:

- 1.Controllng dlmenslon:in mlllmeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout Is for reference purposes only.

REEL SPECIFICATION

| P/N | PKG | QTY |
|-----------------|---------|------|
| SD103AW-SD103CW | SOD-123 | 3000 |



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