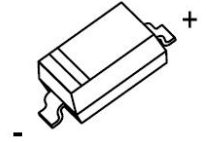


0.2A Small Signal Switching Plastic-Encapsulate Diode - 100V

| PRIMARY CHARACTERISTICS | |
|-------------------------|-------|
| V_{RRM} | 100V |
| I_O | 0.2A |
| V_F | 1V |
| $T_{J,Max}$ | 150°C |

SOD-123 PACKAGE
MARKING: 5D

FEATURES

- High Voltage
- Moisture Sensitivity Level 1

MECHANICAL DATA

- Case : Molded plastic,SOD-123
- Polarity : Shown above
- Terminals :Plated terminals, solderable per MIL-STD-750,Method 2026
- Epoxy : UL94-V0 rated flame retardant

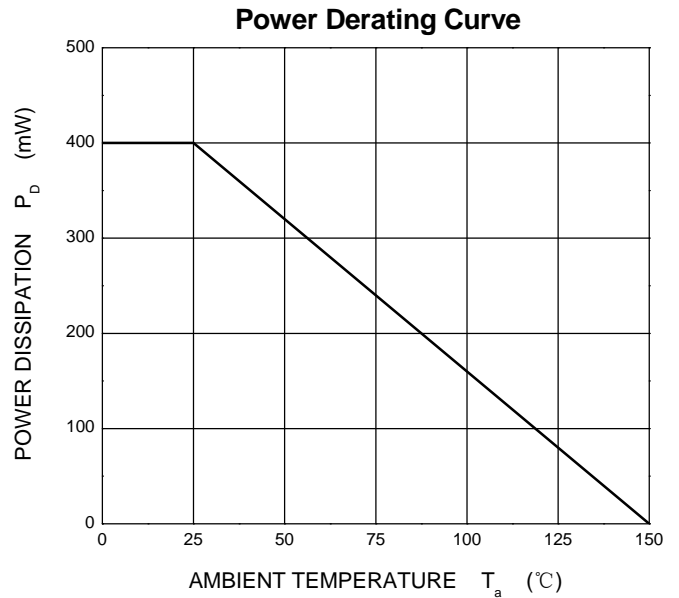
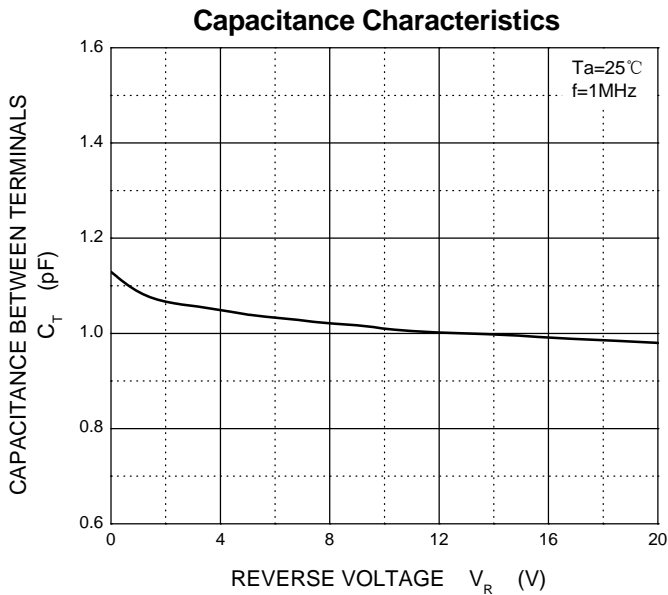
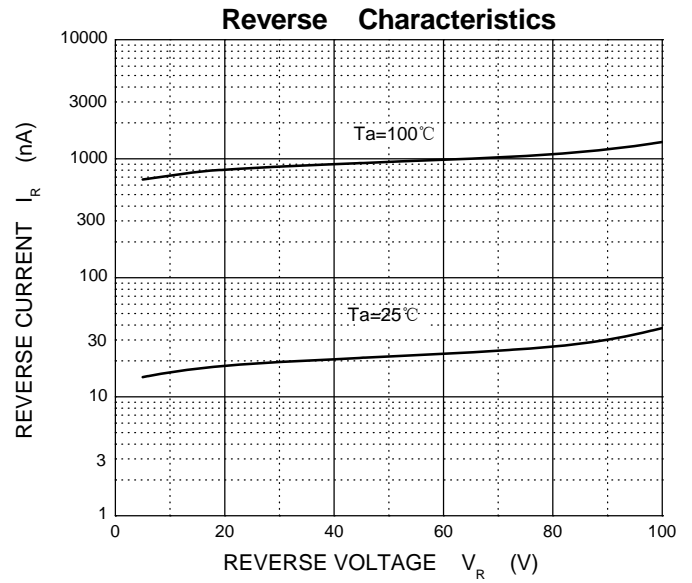
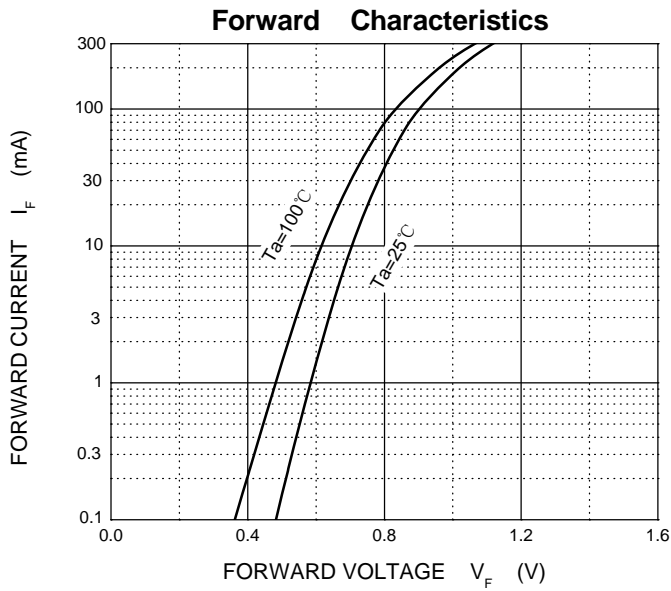
MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

| RATINGS | SYMBOL | MMSD914 | UNITS |
|---|-----------------|------------|-------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 100 | V |
| Forward Current | I_O | 0.2 | A |
| Non-repetitive Peak Forward Surge Current @t=8.3ms | I_{FSM} | 2 | A |
| Power Dissipation | P_D | 400 | mW |
| Typical Thermal Resistance from Junction to Ambient | $R_{\theta JA}$ | 312 | °C/W |
| Max Total capacitance | C_{tot} | 4 | pF |
| Max Reverse recovery time | t_{rr} | 4 | ns |
| Operating Storage Temperature Range | T_J | 150 | °C |
| Storage Temperature Range | T_{STG} | -55 ~ +150 | °C |

ELECTRICAL CHARACTERISTICS(Ta=25°C unless otherwise specified)

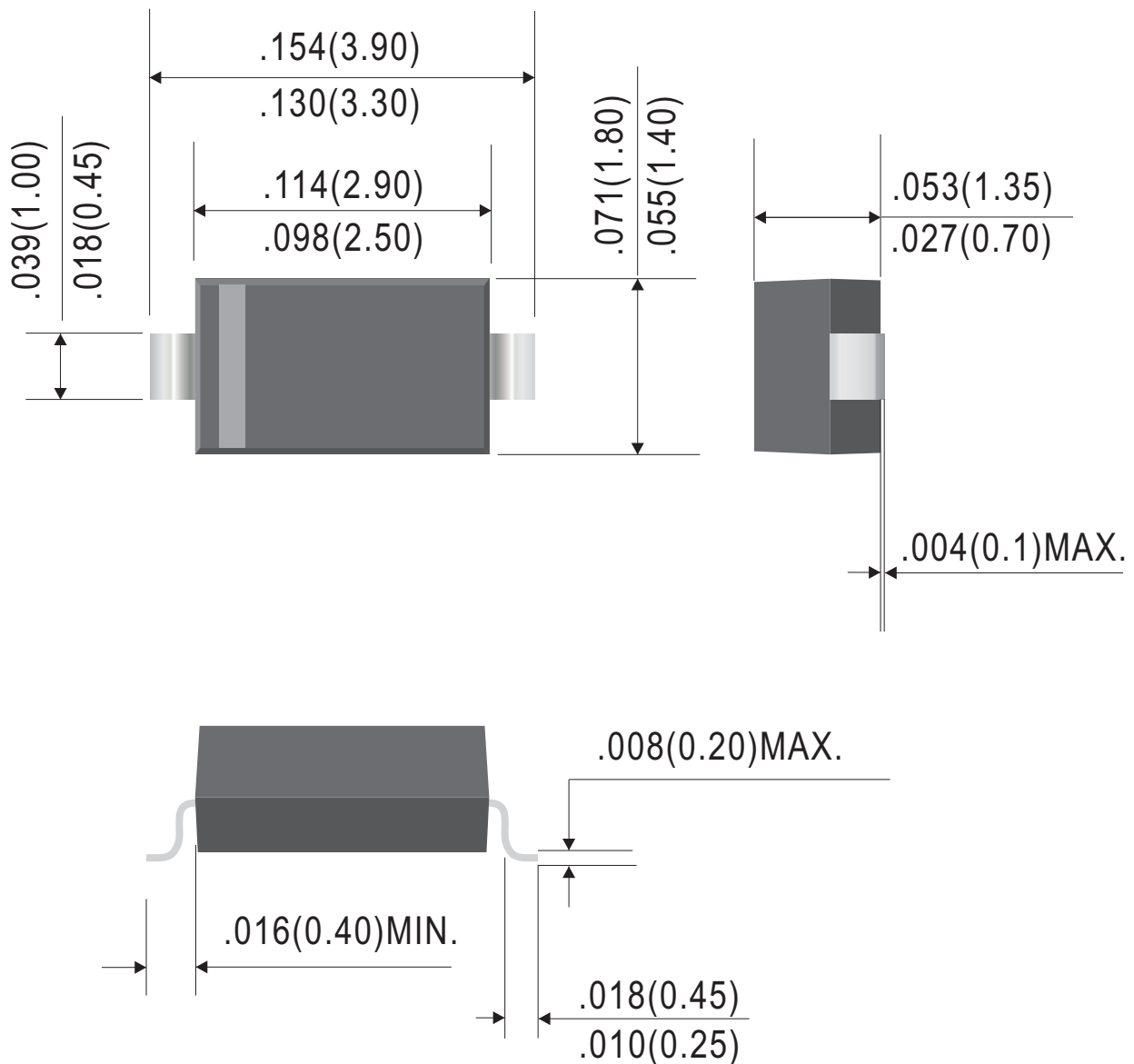
| CHARACTERISTICS | TEST CONDITION | SYMBOL | MIN | TYP | MAX | UNITS |
|----------------------------------|----------------|------------|-----|-----|-----|-------|
| Reverse voltage | IR=5μA | $V_{(BR)}$ | 75 | — | — | V |
| | IR=100μA | | 100 | — | — | |
| Forward Voltage | IF=10mA | V_F | — | — | 1 | V |
| Maximum Reverse Current (Note 1) | VR=20V | I_R | — | — | 25 | nA |
| | VR=75V | | — | — | 5 | uA |

Typical Characteristics



Outline Drawing

SOD-123



Dimensions in inches and (millimeters)

Rev.D

Ordering Information:

| Device PN | Packing |
|--|------------------------|
| MMSD914 -T ⁽¹⁾ G ⁽²⁾ -WS | Tape&Reel: 3 Kpcs/Reel |

Note: (1) Packing code, Tape & Reel Packing

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

*****Disclaimer*****

WILLAS reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. WILLAS or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on WILLAS data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. WILLAS does not assume any liability arising out of the application or use of any product or circuit.

This is the preliminary specification. WILLAS products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of WILLAS. Customers using or selling WILLAS components for use in such applications do so at their own risk and shall agree to fully indemnify WILLAS Inc and its subsidiaries harmless against all claims, damages and expenditures.