

1N4148WS

FAST SWITCHING DIODES

FEATURES

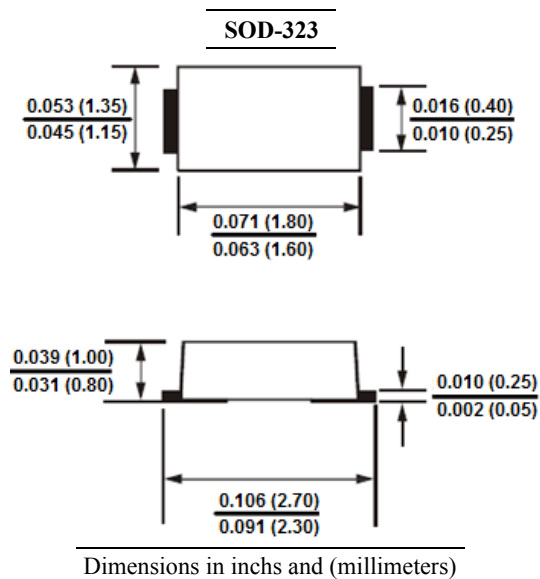
- Fast Switching Device ($T_{RR} < 4.0$ nS)
- General Purpose Diodes
- Surface Device Type Mounting
- Suffix "H" indicates Halogen-free parts, ex. 1N4148WSH

MECHANICAL DATA

Case : SOD-323

Polarity : Color band denotes cathode end

Mounting position : Any



Absolute Maximum Ratings

$T_{amb} = 25$ °C, unless otherwise specified

| Parameter | Symbol | Value | Unit |
|-------------------------------------|-----------|-------------|------|
| Repetitive Peak Reverse Voltage | V_{RRM} | 75 | V |
| Non-Repetitive Peak Reverse Voltage | V_{RSM} | 100 | V |
| Continuous Forward Current | I_O | 150 | mA |
| Repetitive Peak Forward Current | I_{FRM} | 300 | mA |
| Power Dissipation | P_D | 200 | mW |
| Operating Junction Temperature | T_J | 150 | °C |
| Storage Temperature Range | T_{stg} | -65 to +150 | °C |

Electrical Characteristics

$T_{amb} = 25$ °C, unless otherwise specified

| Parameter | Symbol | Test Condition | Min. | Max. | Units |
|---------------------------|------------|--|------|------|-------|
| Forward Voltage | V_F | $I_F=10$ mA | - | 1.0 | V |
| Reverse Leakage Current | I_R | $V_R=20$ V | - | 25 | nA |
| | | $V_R=75$ V | - | 5 | uA |
| Reverse Breakdown Voltage | $V_{(BR)}$ | $I_R=100$ μA | 100 | - | V |
| | | $I_R=5$ μA | 75 | - | |
| Capacitance | C_{TOT} | $V_R=0$ V, $f=1$ MHz | - | 4 | pF |
| Reverse Recovery Time | T_{RR} | $I_F=10$ mA, $I_R=60$ mA $R_L=100$ Ω, $I_{RR}=1$ mA | - | 4 | nS |

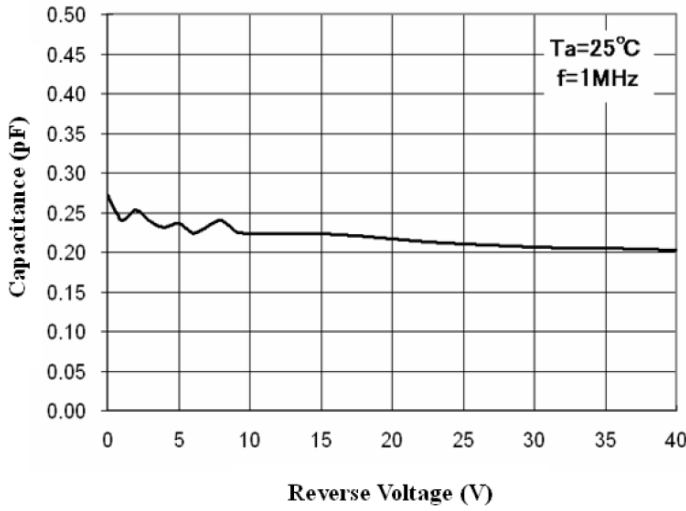
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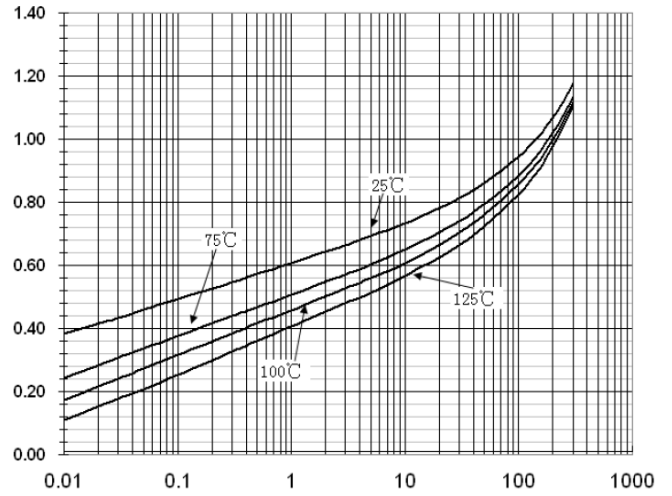


RATINGS AND CHARACTERISTIC CURVES

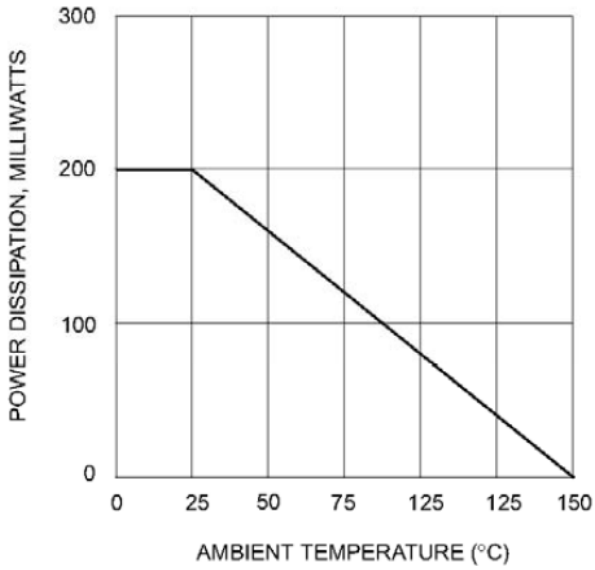
Total Capacitance



Forward Voltage vs Ambient Temperature



Forward Current Derating Curve



Reverse Current vs Reverse Voltage

