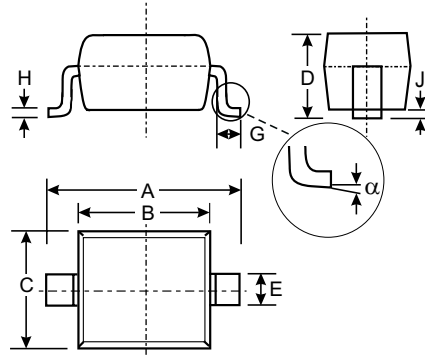


1N5817WS-1N5819WS

0.35A Schottky Barrier Diode

FEATURES

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



| SOD-323 | | |
|----------------------|--------------|------|
| Dim | Min | Max |
| A | 2.30 | 2.70 |
| B | 1.60 | 1.80 |
| C | 1.20 | 1.40 |
| D | 1.05 Typical | |
| E | 0.25 | 0.35 |
| G | 0.20 | 0.40 |
| H | 0.10 | 0.15 |
| J | 0.05 Typical | |
| α | 0° | 8° |
| All Dimensions in mm | | |

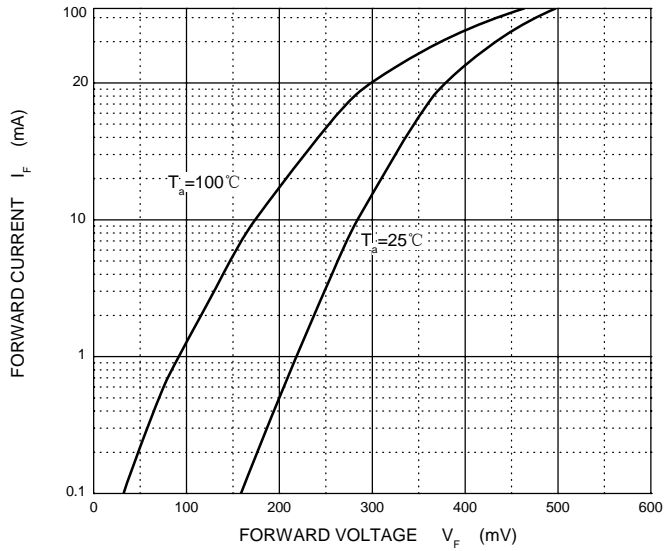
Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C

| Parameter | Symbol | 1N5817WS | 1N5818WS | 1N5819WS | Unit |
|---|-----------------|----------|----------|----------|------|
| Peak Repetitive Peak Reverse Voltage | V_{RRM} | | | | |
| Working Peak Reverse Voltage | V_{RWM} | 20 | 30 | 40 | V |
| DC Blocking Voltage | V_R | | | | |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 14 | 21 | 28 | V |
| Forward Continuous Current | I_{FM} | 350 | | | mA |
| Repetitive Peak Forward Surge Current @1, " a s | I_{FSM} | 12.0 | | | A |
| Power Dissipation | P_d | 200 | | | mW |
| Thermal Resistance Junction to Ambient | $R_{\theta JA}$ | 300 | | | °C/W |
| Junction Temperature | T_j | 125 | | | °C |
| Storage Temperature | T_{STG} | -55~+150 | | | °C |

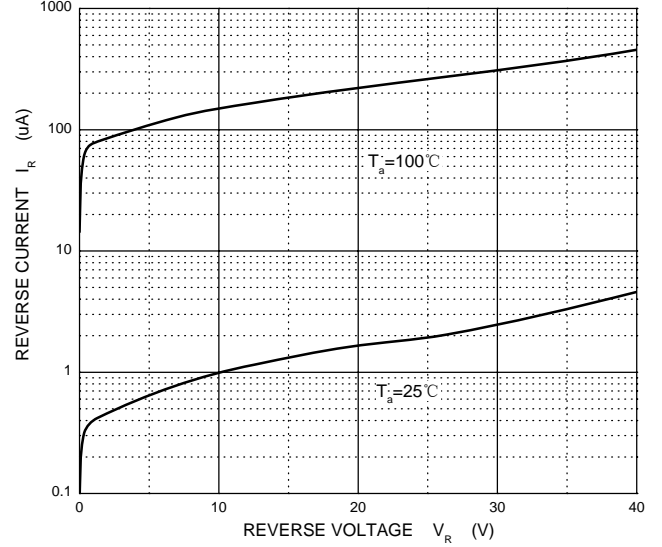
Electrical Ratings @Ta=25°C

| Parameter | Symbol | Min | Typ | Max | Unit | Conditions |
|-------------------------------|------------|-----|-----|--------------|------|---|
| Reverse breakdown voltage | $V_{(BR)}$ | 20 | | | V | $I_R=100\mu A$ |
| | | 30 | | | | |
| | | 40 | | | | |
| Forward voltage | V_F | | | 0.37 0.60 | V | $I_F=20mA$ $I_F=200mA$ |
| Reverse current | I_{RM} | | | 5.0 | μA | $V_R=10V$ $V_R=20V$ $V_R=30V$ |
| Capacitance between terminals | C_T | | | 50 | pF | $V_R=0V, f=1.0MHz$ |
| Reverse recovery time | t_{rr} | | 10 | | ns | $I_F=I_R=200mA$ $I_{rr}=0.1I_R, R_L=100\Omega$ |

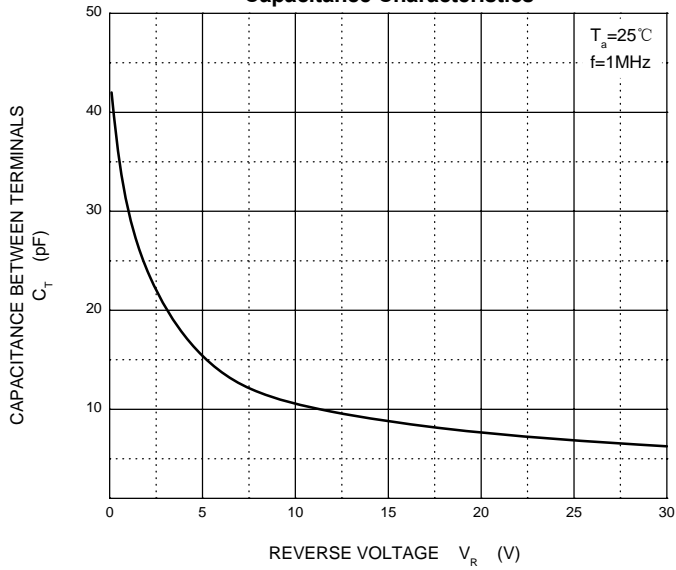
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

