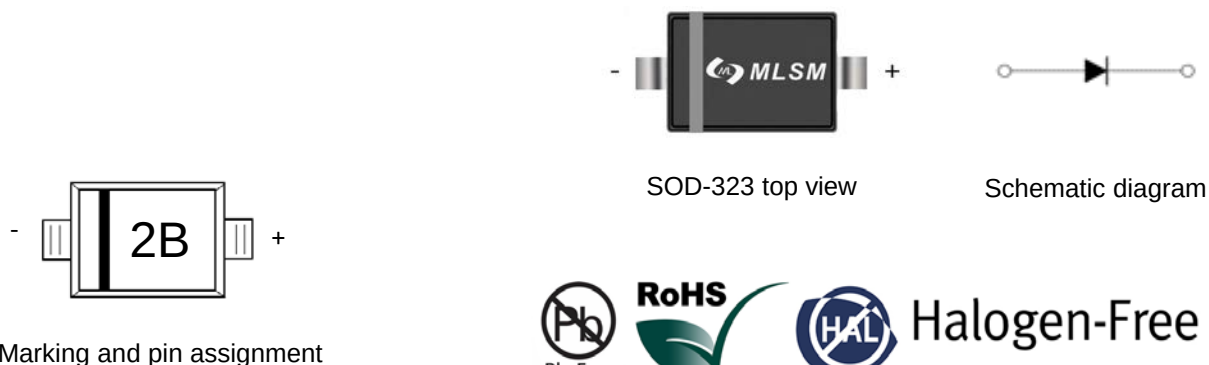


### Features

- For Small Current Rectification
- For Super High Speed Switching
- High-density Mounting is Possible



### Maximum Ratings ( Ta=25°C unless otherwise noted )

| Symbol          | Parameter                                          | Value    | Unit |
|-----------------|----------------------------------------------------|----------|------|
| $V_R$           | DC Blocking Voltage                                | 30       | V    |
| $V_{RRM}$       | Peak Repetitive Reverse Voltage                    | 30       | V    |
| $I_F$           | Forward Current                                    | 200      | mA   |
| $I_{FSM}$       | Non-repetitive Peak Forward Surge Current@t= 8.3ms | 1        | A    |
| $P_D$           | Power Dissipation                                  | 200      | mW   |
| $R_{\theta JA}$ | Thermal Resistance from Junction to Ambient        | 500      | °C/W |
| $T_J$           | Operating Junction Temperature Range               | -40~+125 | °C   |
| $T_{stg}$       | Storage Temperature Range                          | -55~+150 | °C   |

### Electrical Characteristics (Ta =25°C unless otherwise specified )

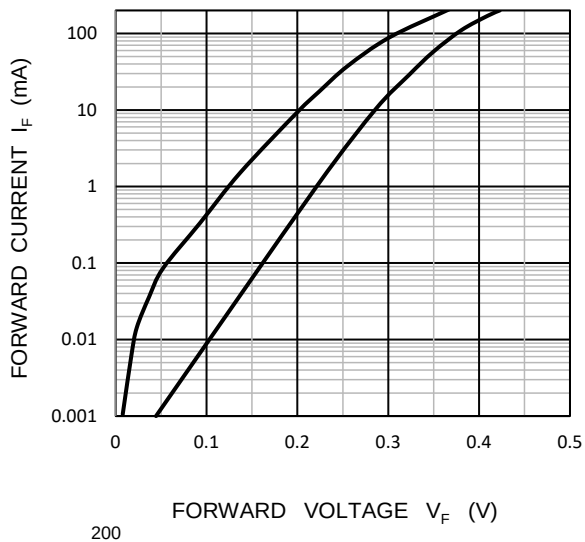
| Symbol     | Parameter             | Condition                                      | Min | Typ | Max  | Unit    |
|------------|-----------------------|------------------------------------------------|-----|-----|------|---------|
| $V_{(BR)}$ | Reverse voltage       | $I_R=100\mu A$                                 | 30  | --  | --   | V       |
| $I_R$      | Reverse current       | $V_R=30V$                                      | --  | --  | 50   | $\mu A$ |
| $V_F$      | Forward voltage       | $I_F=200mA$                                    | --  | --  | 0.55 | V       |
| $C_{tot}$  | Total capacitance     | $V_R=0V, f=1MHz$                               | --  | 30  | --   | pF      |
| $t_{rr}$   | Reverse recovery time | $I_F=I_R=100mA, I_{rr}=0.1XI_R, R_L=100\Omega$ | --  | 3   | --   | ns      |

### Ordering Information (Example)

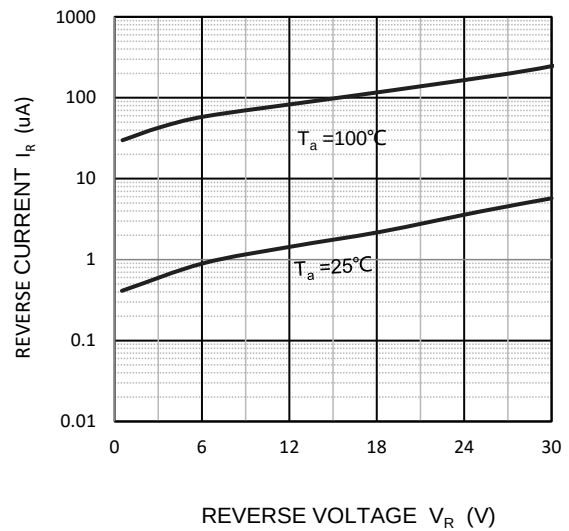
| Type  | Package | Marking | Minimum Package(pcs) | Inner Box Quantity(pcs) | Outer Carton Quantity(pcs) | Delivery Mode |
|-------|---------|---------|----------------------|-------------------------|----------------------------|---------------|
| MA729 | SOD-323 | 2B      | 3,000                | 45,000                  | 180,000                    | 7"reel        |

## Typical Operating Characteristics

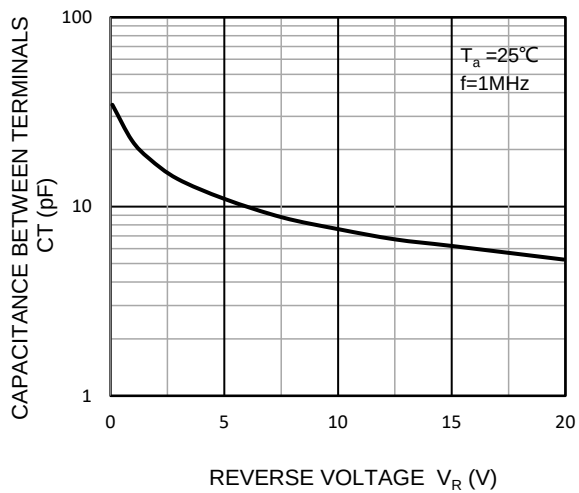
Forward Characteristics



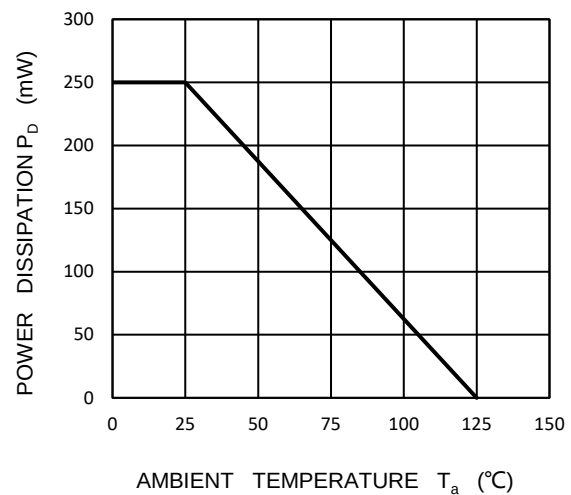
Reverse Characteristics



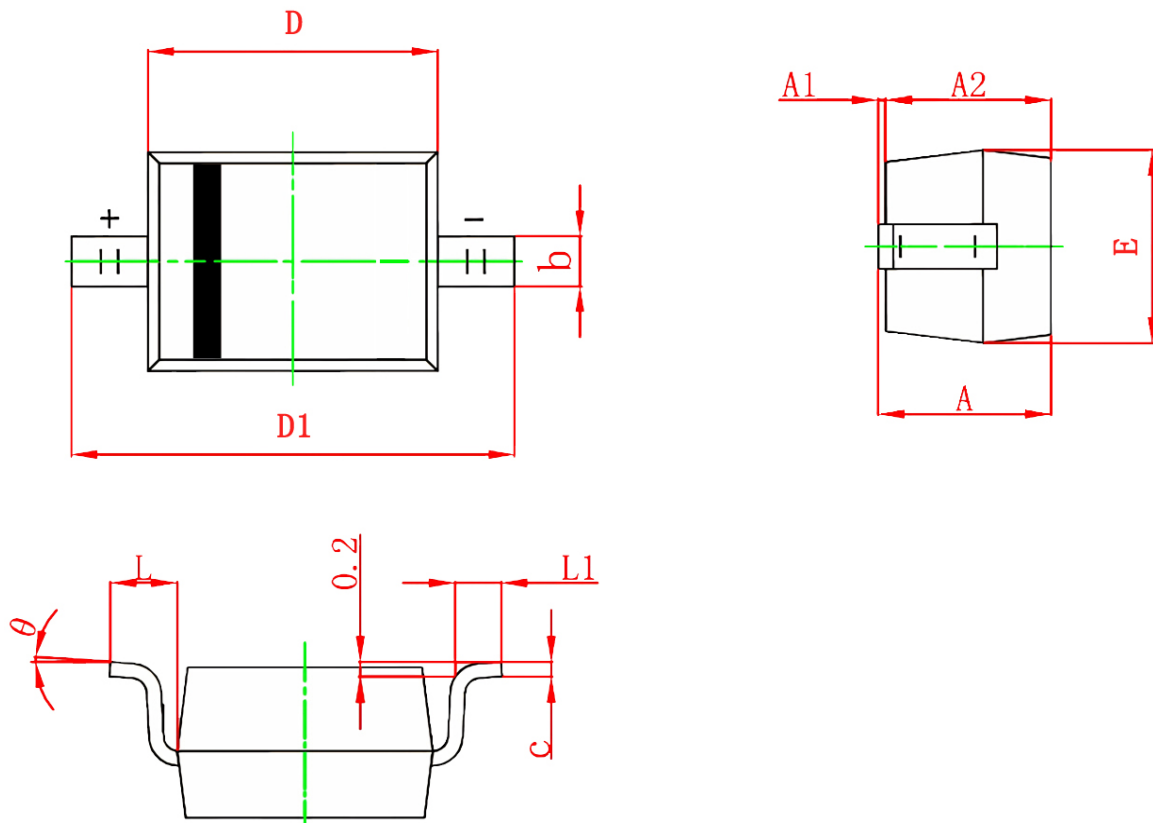
Capacitance Characteristics



Power Derating Curve



SOD-323 Package information



| Symbol | Dimensions in Millimeters(mm) |       | Dimensions In Inches |       |
|--------|-------------------------------|-------|----------------------|-------|
|        | Min                           | Max   | Min                  | Max   |
| A      | -                             | 1.100 | -                    | 0.043 |
| A1     | 0.000                         | 0.100 | 0.000                | 0.004 |
| A2     | 0.800                         | 1.000 | 0.031                | 0.039 |
| b      | 0.250                         | 0.350 | 0.010                | 0.014 |
| c      | 0.080                         | 0.150 | 0.003                | 0.006 |
| D      | 1.600                         | 1.800 | 0.063                | 0.071 |
| D1     | 2.500                         | 2.750 | 0.098                | 0.108 |
| E      | 1.200                         | 1.400 | 0.047                | 0.055 |
| L      | 0.475 REF                     |       | 0.019 REF            |       |
| L1     | 0.250                         | 0.400 | 0.010                | 0.016 |
| θ      | 0°                            | 8°    | 0°                   | 8°    |