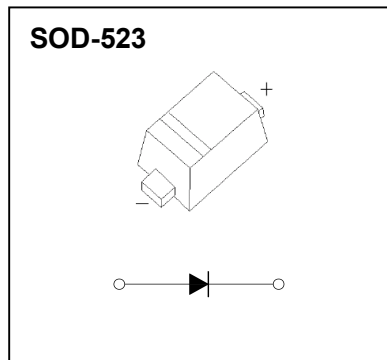


SCHOTTKY BARRIER DIODE
FEATURES

- High Speed
- High Reliability
- Small Package
- Low Forward Voltage


APPLICATIONS

- High Speed Switching

MARKING: S4
MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

| Symbol | Parameter | Value | Unit |
|------------------|-------------------------------------------------|----------|------|
| V _R | DC Blocking Voltage | 10 | V |
| I _O | Continuous Forward Current | 100 | mA |
| I _{FM} | Peak Forward Current | 200 | mA |
| I _{FSM} | Non-repetitive Peak Forward Surge Current @10ms | 1 | A |
| P _D | Power Dissipation | 150 | mW |
| R _{θJA} | Thermal Resistance From Junction To Ambient | 667 | °C/W |
| T _j | Junction Temperature | 125 | °C |
| T _{stg} | Storage Temperature | -55~+150 | °C |

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

| Parameter | Symbol | Test conditions | Min | Typ | Max | Unit |
|-------------------|-------------------|---------------------------|-----|------|-----|------|
| Reverse voltage | V _(BR) | I _R =100μA | 10 | | | V |
| Reverse current | I _R | V _R =10V | | | 20 | μA |
| Forward voltage | V _F | I _F =1mA | | 0.18 | | V |
| | | I _F =5mA | | | 0.3 | |
| | | I _F =100mA | | | 0.5 | |
| Total capacitance | C _{tot} | V _R =0V,f=1MHz | | | 40 | pF |