

RB520SM5-40

Schottky Diode

FEATURE

- Low current Rectification
- Low reverse current
- SOD523 Thin SMD package
- RoHS compliant / Green EMC
- Matte Tin (Sn) Lead finish
- Cathode Band / Device marking

MARKING: D/D1

SOD-523



Schematic diagram



ABSOLUTE MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

| Parameter | Symbol | Value | Unit |
|--|------------------|-------------|------|
| Repetitive Peak Reverse Voltage | V _{RRM} | 40 | V |
| DC Blocking Voltage | V _R | 40 | V |
| Continuous Forward Current | I _O | 200 | mA |
| Non-Repetitive Peak Forward Current *1 | I _{FSM} | 1 | A |
| Power Dissipation | P _D | 200 | mW |
| Junction Temperature | T _J | 125 | °C |
| Storage Temperature | T _{STG} | -55 to +125 | °C |

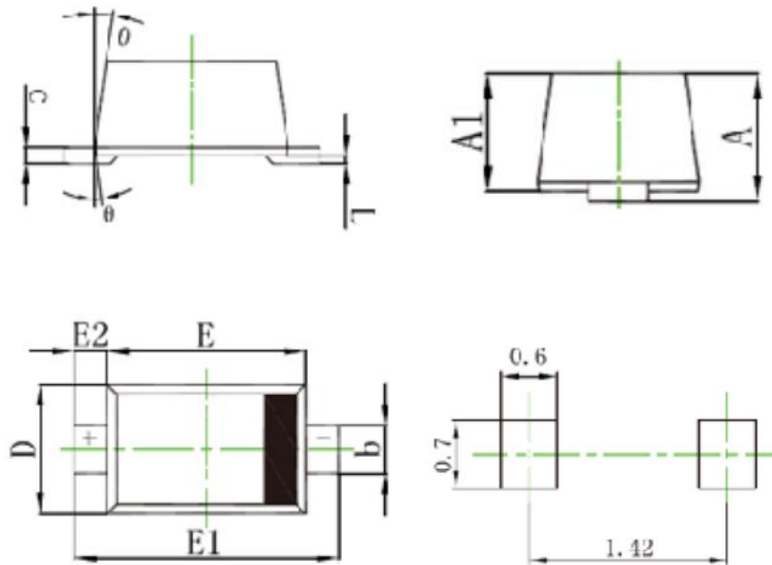
*1 8.3 ms single half sine-wave

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

| Parameter | Symbol | Test Condition | Min | Type | Max | Unit |
|-------------------|-----------------|------------------------|-----|------|------|------|
| Forward Voltage | V _F | I _F = 10mA | | | 0.39 | V |
| | | I _F = 200mA | | | 0.55 | V |
| Breakdown Voltage | B _{VR} | I _R = 100μA | 40 | | | V |
| Reverse Current | I _R | V _R = 10V | | | 1 | μA |
| | | V _R = 40V | | | 10 | μA |

SOD-523F Package Information

| Device | Package | Shipping | Tape wide | Emboss pitch | Tape specification | Notes |
|-------------|---------|---------------------------------|-----------|--------------|--------------------|-------|
| RB520SM5-40 | SOD-523 | Tape & Reel 8000pcs /7" Reel | 8 mm | 4 mm | Conductive | |



| Symbol | Dimensions In Millimeters | | |
|--------|---------------------------|-----|------|
| | Min | Typ | Max |
| A | 0.51 | - | 0.77 |
| A1 | 0.50 | - | 0.70 |
| b | 0.25 | - | 0.35 |
| c | 0.08 | - | 0.15 |
| D | 0.75 | - | 0.85 |
| E | 1.10 | - | 1.30 |
| E1 | 1.50 | - | 1.70 |
| E2 | 0.20REF. | | |
| L | 0.01 | - | 0.07 |
| θ | 7° REF. | | |

1. Unit mm