

Surface Mount Schottky Barrier Diode

 Lead(Pb)-Free

Features:

*Extremely Low V_F .

*Very Small Conduction Losses.

*Schottky Barrier Diodes Encapsulated in SOD-323 Package.

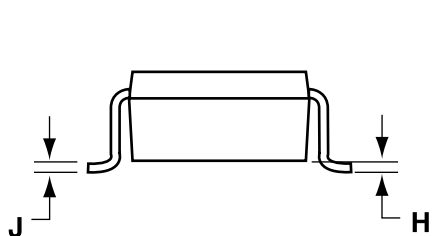
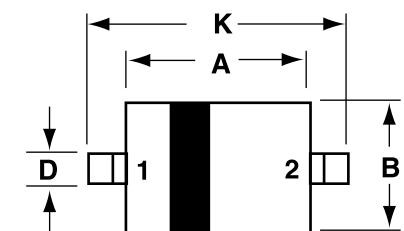
**SCHOTTKY BARRIER
RECTIFIERS
100m AMPERES
40 VOLTS**



SOD-323

SOD-323 Outline Demensions

Unit:mm



| Dim | MILLMETERS | |
|-----|------------|-------|
| | Min | Max |
| A | 1.60 | 1.80 |
| B | 1.15 | 1.35 |
| C | 0.80 | 1.00 |
| D | 0.25 | 0.40 |
| E | 0.15 REF | |
| H | 0.00 | 0.10 |
| J | 0.089 | 0.377 |
| K | 2.30 | 2.70 |

PIN 1.CATHODE
2.ANODE

MAXIMUM RATING

| Characteristics | Symbol | WSD 501H | Unit |
|--|-----------|-------------|-------|
| Breakdown Voltage | B_V | 45 | Volts |
| Continuous Reverse Voltage | V_R | 40 | Volts |
| Average Rectified Forward Current | I_O | 100 | mAmps |
| Peak Forward Surge Current (8.3ms ^{1/2} Sine Wave) | I_{FSM} | 1.0 | Amps |
| Storage Temperature | T_{stg} | -40 to +125 | °C |

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

| Characteristics | Symbol | WSD 501H | Unit |
|--|--------|----------|-------|
| Device Marking | | JV | |
| Maximum Instantaneous Forward Voltage $I_F=100mA$ | V_F | 0.55 | Volts |
| Maximum Instantaneous Reverse Current ($V_R=10V$) | I_R | 30 | μAmps |
| Typical Junction Capacitance ($V_R=10V, f=1MHz$) | C_J | 20 | Pf |

Electrical characteristics curves (Ta=25°C unless specified otherwise)

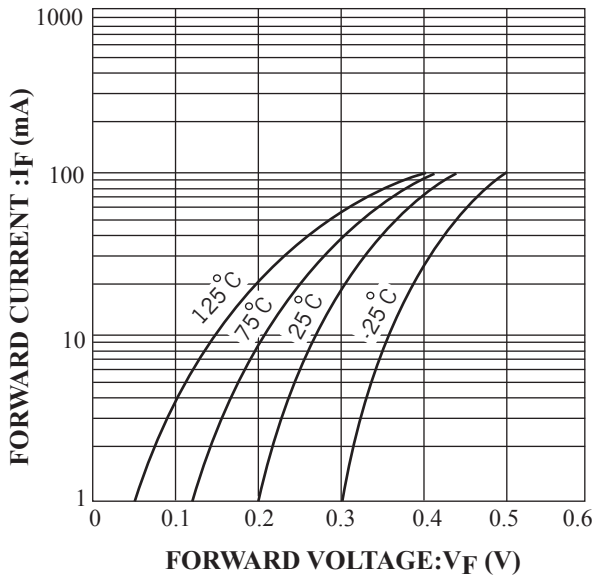


FIG: 1 Forward characteristics

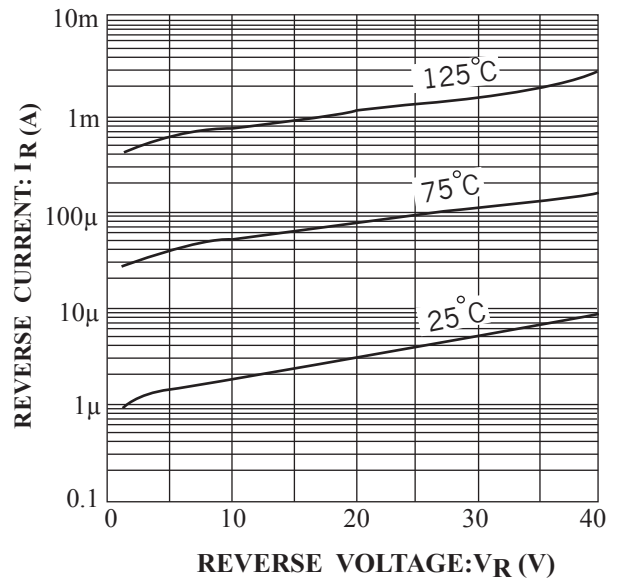
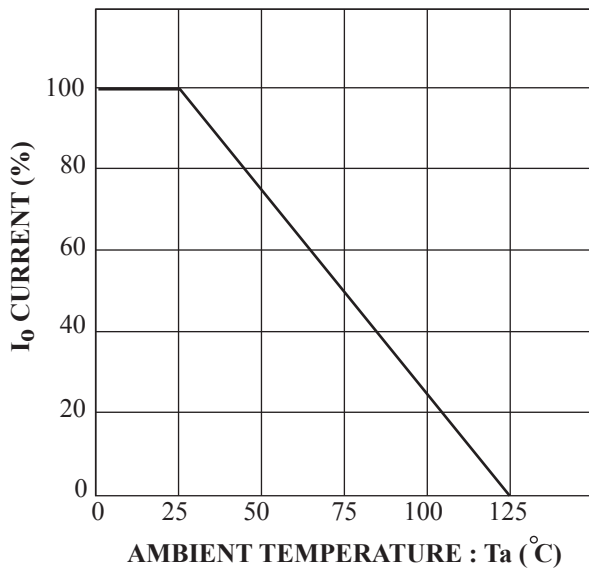
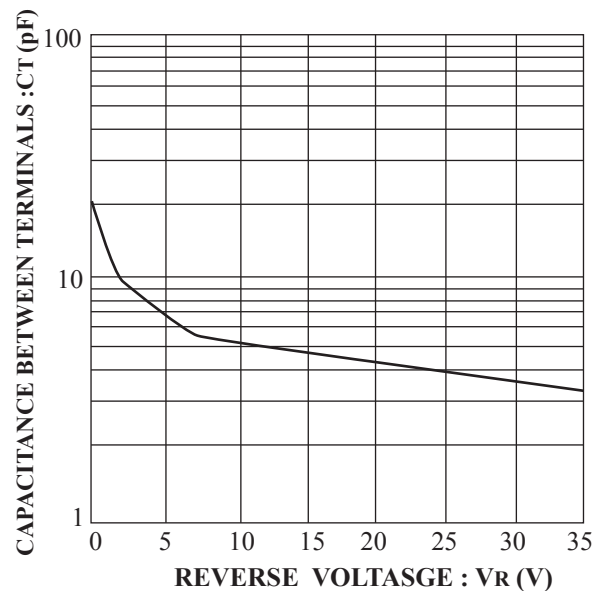


Fig.2 Reverse characteristics



**Fig. 4 Derating curve
(mounting on glass epoxy PCBs)**



**Fig.3 Capacitance between
terminals characteristics**