



SCHOTTKY DIODES

FEATURES

- * High current rectifier Schottky diode
- * Low voltage, low inductance
- * For power supply

MECHANICAL DATA

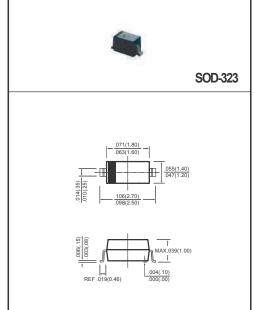
- * Case: Molded plastic
- * Epoxy: UL 94V-O rate flame retardant
- * Lead: MIL-STD-202E method 208C guaranteed

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

- * Mounting position: Any
- * Weight: 0.004 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS (@T_A=25°C unless otherwise noted)

For capacitive load, derate current by 20%.

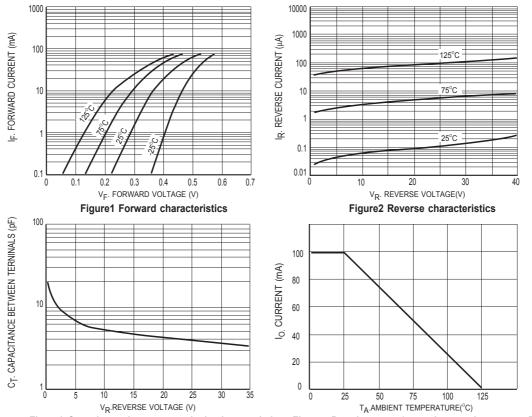
| RATINGS | SYMBOL | RB500V-40 | UNITS |
|---|----------------------------------|--------------|-------|
| Maximum Peak reverse voltage | V _{RM} | 45 | Volts |
| Maximum DC reverse voltage | VR | 40 | Volts |
| Maximum Peak Forward Surge Current | IFSM | 1 | Amps |
| Mean rectifying current | lo | 0.1 | Amps |
| Operating and Storage Temperature Range | T _J ,T _{STG} | -40 to + 125 | °C |

ELECTRICAL CHARACTERISTICS (@ TA = 25° C unless otherwise noted)

| CHARACTERISTICS | | SYMBOL | MIN. | TYP. | MAX. | UNITS |
|---------------------------------|------------------------------|----------------|------|------|------|-------|
| Reverse voltage leakage current | (V _R =10V) | I _R | - | - | 1 | μA |
| Forward voltage | (I _F =10mA) | VF | - | - | 0.45 | V |
| Diode Capacitance | (V _R =10V,f=1MHz) | Ст | - | 6 | - | pF |

Note: "Fully ROHS Compliant", "100% Sn plating (Pb-free)".

VC 2007-4



RATING AND CHARACTERISTICS CURVES (RB500V-40)

Figure3 Capacitance between terminals characteristics Figure4 Derating curve(mounting on glass epoxy PCBs)

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