



SD120P THRU SD1100P

1.0 Amp Schottky Barrier Rectifiers



Voltage Range
20 to 100 Volts
Current
1.0 Amperes

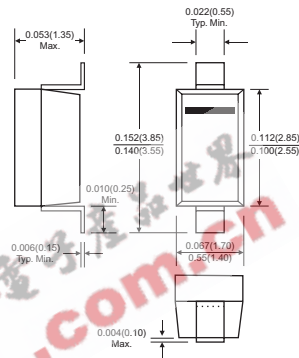
Features

- ✧ Low forward voltage
- ✧ Extremely Low thermal resistance
- ✧ High Current Capability
- ✧ For surface mount application
- ✧ Higher temp soldering: 260°C for 10 seconds at terminals

Mechanical Data

- ✧ Case: SOD-123, plastic
- ✧ Polarity: Cathode band
- ✧ Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- ✧ Mounting position: Any
- ✧ Marking: As below table

SOD-123



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Maximum Ratings and Electrical Characteristics

| Type Number | Symbol | SD 120P | SD 130P | SD 140P | SD 160P | SD 190P | SD 1100P | Units |
|--|----------------|-----------------------------|---------|---------|---------|---------|----------|-------|
| Marking Code | | BR | BU | BM | BY | BZ | BX | |
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 20 | 30 | 40 | 60 | 90 | 100 | V |
| Working Peak Reverse Voltage | V_{RMS} | 20 | 30 | 40 | 60 | 90 | 100 | V |
| Maximum DC Blocking Voltage | V_{DC} | 20 | 30 | 40 | 60 | 90 | 100 | V |
| Average Forward Current ($I_{F(AV)}$) @ $T_J=90^\circ\text{C}$ | $I_{(AV)}$ | 1.0 | | | | | | A |
| Peak Forward Current (I_{FSM}) @ 8.3ms half sine | I_{FSM} | 20 | | | | | | A |
| Maximum Instantaneous Forward Voltage @ 1.0A | V_F | 0.45 | 0.52 | 0.65 | 0.83 | | | V |
| Maximum DC Reverse Current at Rate DC Blocking Voltage | I_R | 0.3 | | | | | | mA |
| Typical Junction Capacitance | C_j | 30 | | | | | | pF |
| Operating and Storage Temperature Range | T_J, T_{STG} | -50 to + 150 / -65 to + 175 | | | | | | °C |



RATINGS AND CHARACTERISTIC CURVES (SD120P THRU SD1100P)

FIG.1- FORWARD DERATING CURVE

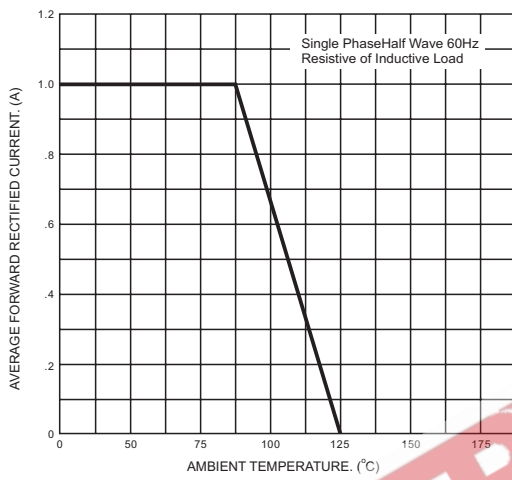


FIG.2- JUNCTION CAPACITANCE

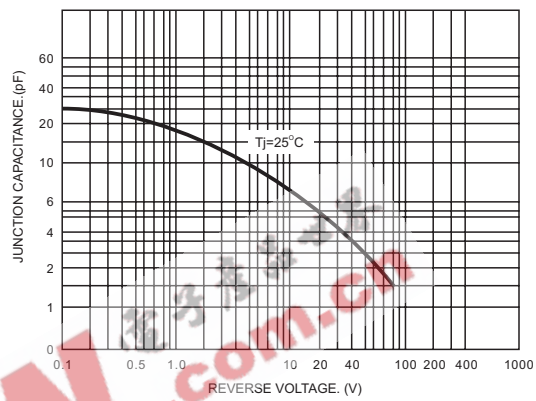


FIG.3- TYPICAL FORWARD CHARACTERISTICS

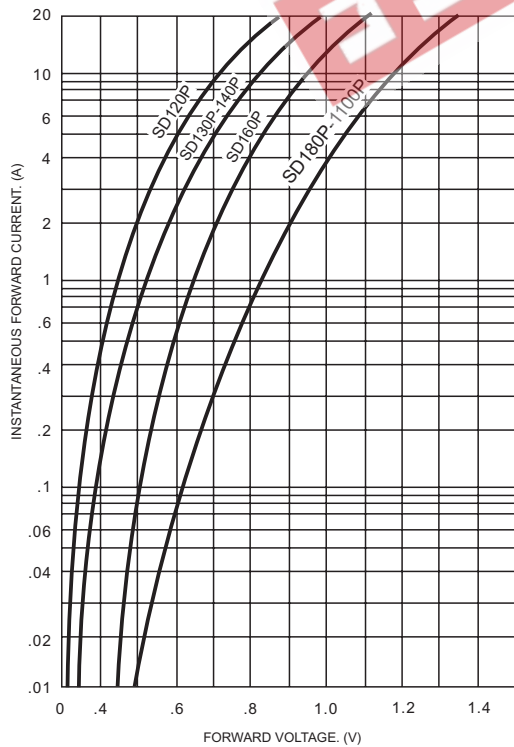


FIG.4- PEAK FORWARD SURGE CURRENT

