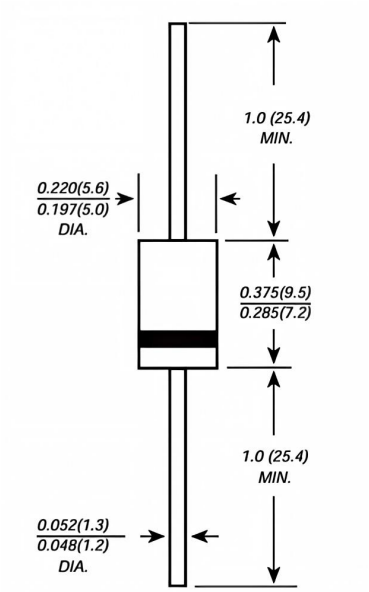
## Schottky Barrier Rectifier

DO-201AD(DO-27)

| Parameter | Value | Unit |
|---|---|---|
| $V_{RRM}$ | 20~200 | V |
| $I_{F(AV)}$ | 5.0 | A |




Dimensions in inches and (millimeters)

### Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

### Applications

- For use in low-voltage, high-frequency inverters, free-wheeling applications, DC/DC converters, and polarity protection circuits.

### Electrical Characteristics(at Ta = 25℃ unless otherwise specified)

| Parameter | Symbol | SR520 | SR540 | SR550 | SR560 | SR580 | SR5100 | SR5150 | SR5200 | Units |
|---|---|---|---|---|---|---|---|---|---|---|
| Maximum Recurrent Peak Reverse Voltage | $V_{RRM}$ | 20 | 40 | 50 | 60 | 80 | 100 | 150 | 200 | V |
| Maximum RMS Voltage | $V_{RMS}$ | 14 | 28 | 35 | 42 | 56 | 70 | 105 | 140 | V |
| Maximum DC Blocking Voltage | $V_{DC}$ | 20 | 40 | 50 | 60 | 80 | 100 | 150 | 200 | V |
| Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length | $I_{F(AV)}$ | 5.0 | | | | | | | | A |
| Peak Forward Surge Current,8.3ms single half-sine-wave superimposed on rated load(JEDEC method) | $I_{FSM}$ | 150 | | | | | | | | A |
| Maximum Forward Voltage at 5.0A | $V_F$ | 0.55 | | 0.70 | | 0.85 | | 0.95 | | V |
| Maximum DC Reverse Current at Rated DC Reverse Voltage Ta=25℃ / Ta=100℃ | $I_R$ | 0.5<br>50 | | | | | | | | mA |
| Typical Junction Capacitance (Note 1) | $C_J$ | 500 | | 380 | | | | | | pF |
| Typical Thermal Resistance (Note 2) | $R_{\theta JA}$ | 15 | | 10 | | | | | | ℃/W |
| Operating Junction Temperature Range | $T_J$ | -55 to +125 | | -55 to +150 | | | | | | ℃ |
| Storage Temperature Range | $T_{stg}$ | -55 to +150 | | | | | | | | ℃ |

NOTES:
1- Measured at 1 MHZ and applied reverse voltage of 4.0 VDC.
2- Thermal Resistance From Junction to Ambient 0.375"(9.5mm) lead length P.C.B. Mounted

## Typical characteristics

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

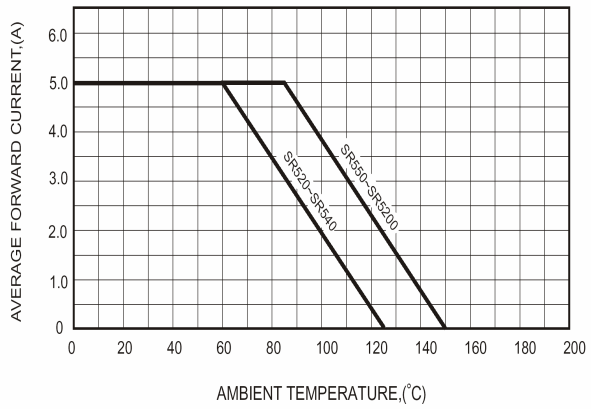



FIG.2-TYPICAL FORWARD CHARACTERISTICS

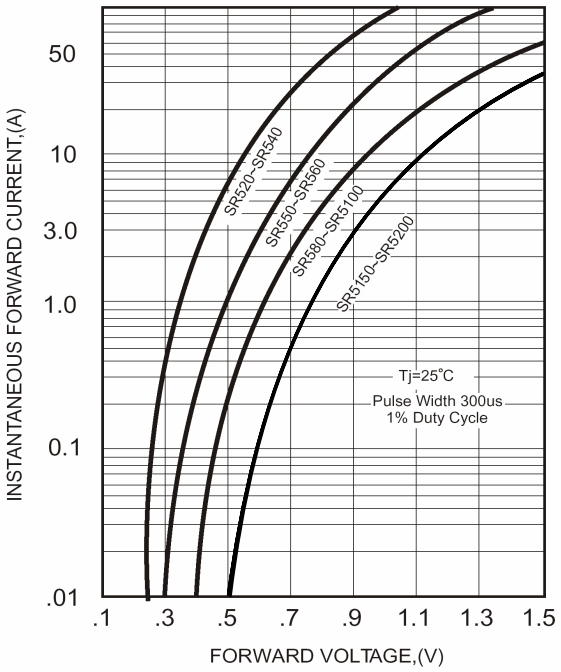



FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

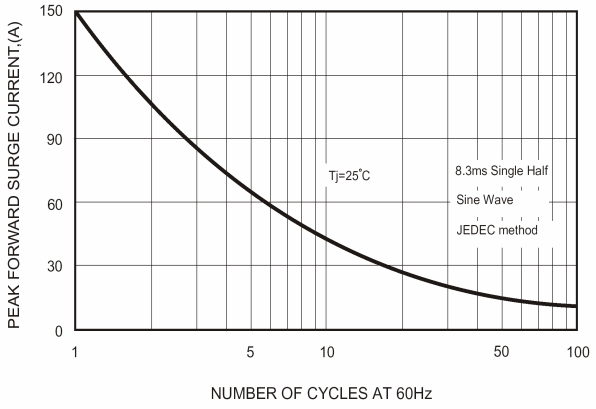



FIG.4-TYPICAL JUNCTION CAPACITANCE

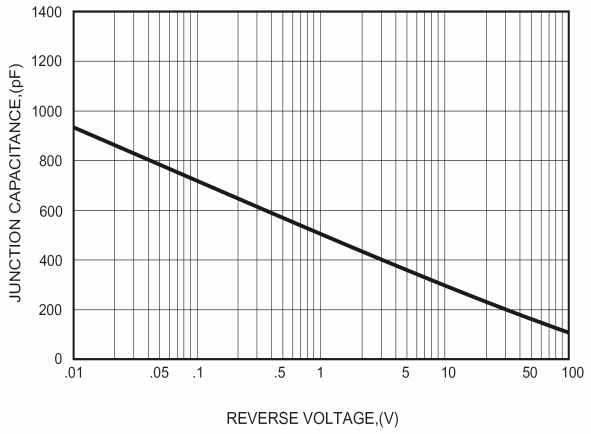
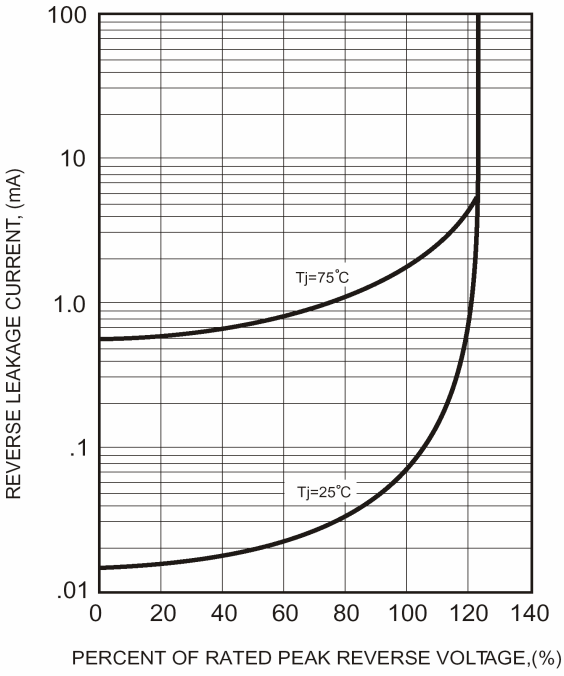



FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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