

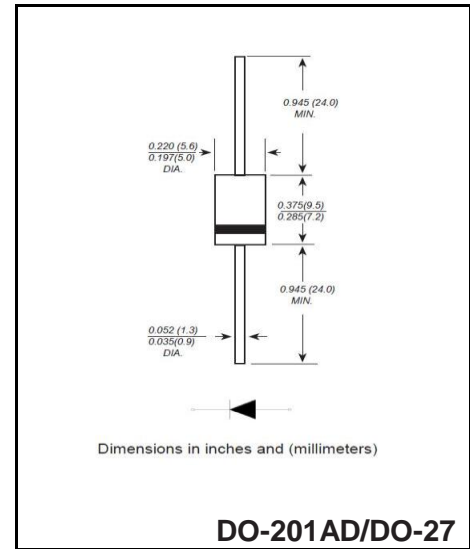
**Super Fast Silicon Rectifiers**  
**Reverse Voltage - 100 to 600 V**  
**Forward Current - 3 A**

### FEATURES

- ◆ For surface mounted applications
- ◆ Low profile package
- ◆ Open Junction chip
- ◆ Ideal for automated placement
- ◆ Lead free in comply with EU RoHS 2011/65/EU directives

### MECHANICAL DATA

- ◆ Case: DO-201AD/DO-27
- ◆ Terminals: Solderable per MIL-STD-750, Method 2026
- ◆ Approx. Weight: 0.98 g / 0.0345oz



### Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.  
 Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

| Parameter   | Symbols         | SF32       | SF33 | SF34 | SF36 | SF37 | SF38 | Units              |
|---|-----------------|------------|------|------|------|------|------|--------------------|
| Maximum Repetitive Peak Reverse Voltage   | $V_{RRM}$       | 100        | 150  | 200  | 400  | 500  | 600  | V                  |
| Maximum RMS voltage   | $V_{RMS}$       | 70         | 105  | 140  | 280  | 350  | 420  | V                  |
| Maximum DC Blocking Voltage   | $V_{DC}$        | 100        | 150  | 200  | 400  | 500  | 600  | V                  |
| Maximum Average Forward Rectified Current at $T_c = 100\text{ }^\circ\text{C}$  | $I_{F(AV)}$     | 3.0        |      |      |      |      |      | A                  |
| Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load  | $I_{FSM}$       | 150.0      |      |      |      |      |      | A                  |
| Maximum Instantaneous Forward Voltage at 3.0A   | $V_F$           | 0.95       |      | 1.25 |      | 1.7  |      | V                  |
| Maximum DC Reverse Current $T_a = 25\text{ }^\circ\text{C}$<br>at Rated DC Blocking Voltage $T_a = 125\text{ }^\circ\text{C}$ | $I_R$           | 10<br>500  |      |      |      |      |      | $\mu\text{A}$      |
| Maximum reverse recovery time <sup>(Note 1)</sup>   | $T_{rr}$        | 35         |      |      |      |      |      | nS                 |
| Typical Junction Capacitance <sup>(Note 2)</sup>  | $C_j$           | 70.0       |      |      |      |      |      | pF                 |
| Typical Thermal Resistance  | $R_{\theta JA}$ | 45.0       |      |      |      |      |      | $^\circ\text{C/W}$ |
| Operating and Storage Temperature Range   | $T_j, T_{stg}$  | -55 ~ +150 |      |      |      |      |      | $^\circ\text{C}$   |

(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

(2) Reverse recovery time test condition:  $I_F=0.5\text{A}$   $I_R=1.0\text{A}$   $I_{rr}=0.25\text{A}$

**Ratings And Characteristic Curves**

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

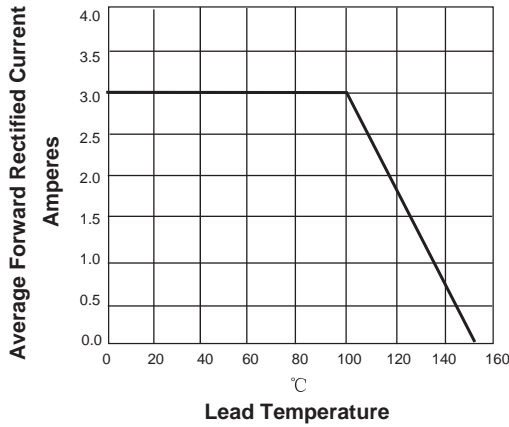


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

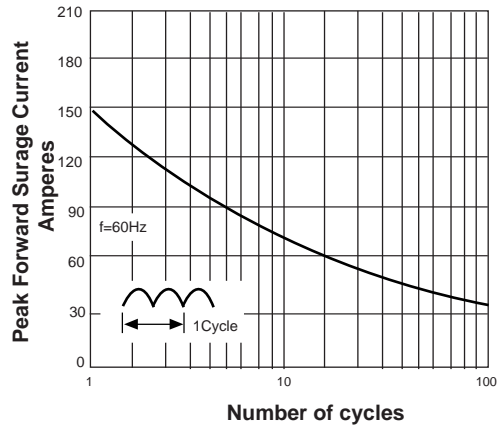


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

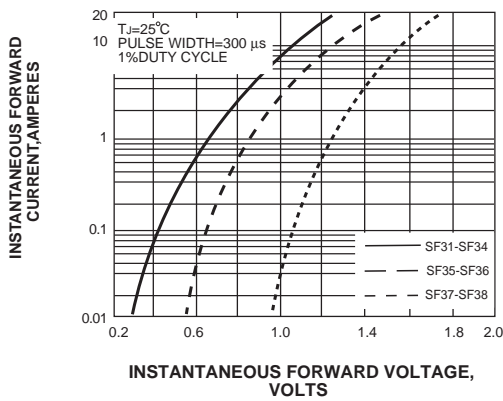
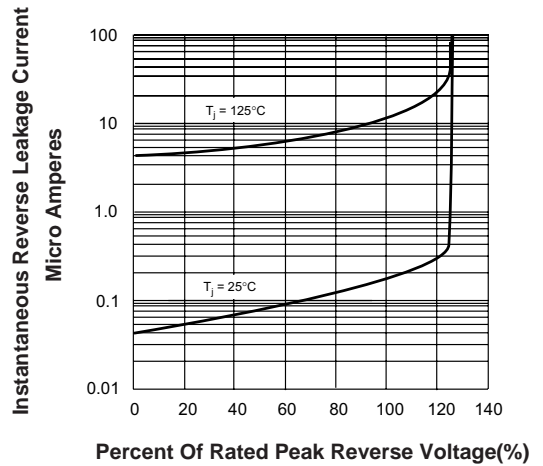


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Package Outline DO-201AD(DO-27)



| DIMENSIONS |        |      |       |      |      |
|------------|--------|------|-------|------|------|
| DIM        | INCHES |      | MM    |      | NOTE |
|            | MIN    | MAX  | MIN   | MAX  |      |
| A          | ---    | .370 | ---   | 9.50 |      |
| B          | ---    | .250 | ---   | 6.40 |      |
| C          | .048   | .052 | 1.20  | 1.30 |      |
| D          | 1.000  | ---  | 25.40 | ---  |      |

Summary of Packing Options

| Package         | Packing Description | Packing Quantity | Industry Standard |
|-----------------|---------------------|------------------|-------------------|
| DO-201AD(DO-27) | BOX                 | 250/1000/1250    | EIA-481-1         |

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