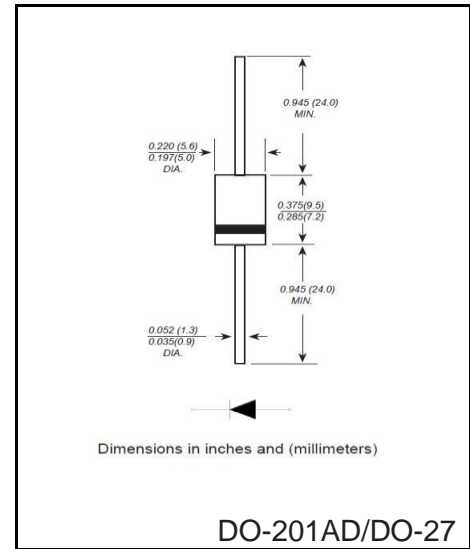


**Trench MOS Barrier Schottky Rectifier**
**Reverse Voltage - 60 V**
**Forward Current - 5 A**
**FEATURES**

- ◆ Advanced trench technology
- ◆ Low forward voltage drop
- ◆ Low power losses
- ◆ High efficiency operation
- ◆ 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: 0.98g / 0.0345oz


**Maximum Ratings (Per Leg) at Ta=25°C unless otherwise specified**

| Parameter  |           | Symbols         | Value      | Units |
|--|-----------|-----------------|------------|-------|
| Maximum Repetitive Peak Reverse Voltage  |           | $V_{RRM}$       | 60         | V     |
| Maximum RMS voltage  |           | $V_{RMS}$       | 60         | V     |
| Maximum DC Blocking Voltage  |           | $V_{DC}$        | 60         | V     |
| Maximum Average Forward Rectified Current  | Per diode | $I_{F(AV)}$     | 5          | A     |
| Peak Forward Surge Current, 8.3ms Single Half Sine-wave superimposed on rated load per diode |           | $I_{FSM}$       | 150        | A     |
| Operating Temperature Range  |           | $T_J$           | -55 ~ +150 | °C    |
| Storage Temperature Range  |           | $T_{STG}$       | -55 ~ +150 | °C    |
| Typical Thermal Resistance Per diode(munted on FR-4 PCB)                                     | DO-27     | $R_{\theta JC}$ | 20         | °C/W  |

**Note1: Thermal resistance from Junction to case per leg mounted on heatsink.**

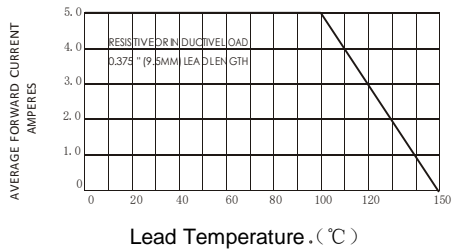
**Electrical Characteristics (Per Leg) unless otherwise specified**

| Characteristics  |          | Symbols | Value |     | Units |
|--|----------|---------|-------|-----|-------|
| Forward Voltage Drop(Note2)                                      |          | $V_F$   | Typ   | Max | V     |
| at $I_F=1A$ Instantaneous forward voltage per diode              | TA=25°C  |         | 0.34  | -   |       |
|  | TA=125°C |         | 0.27  | -   |       |
| at $I_F=5A$ Instantaneous forward voltage per diode              | TA=25°C  |         | 0.50  | -   |       |
|  | TA=125°C | 0.42    | -     |     |       |
| Instantaneous reverse current per diode at rated reverse voltage | TA=25°C  | $I_R$   | -     | 0.2 | uA    |
|  | TA=125°C |         | -     | 50  | mA    |

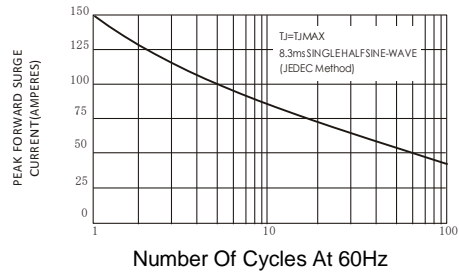
**Note2: (1)Pulse test: 300 μs pulse width, 1 % duty cycle  
(2) Pulse test: Pulse width ≤ 40 ms**

**RATINGS AND CHARACTERISTIC CURVES**

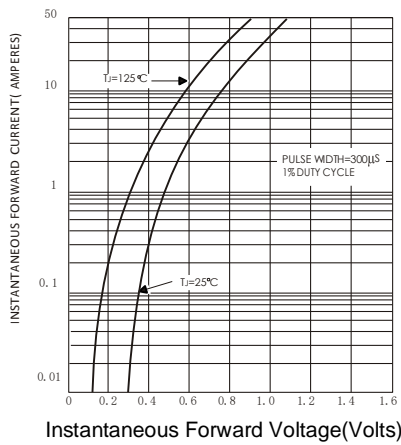
**Forward Current Derating Curve**



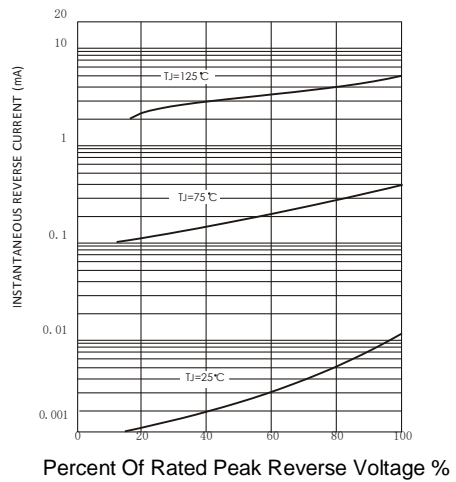
**Maximum Non-repetitive Peak Forward Surge Current**



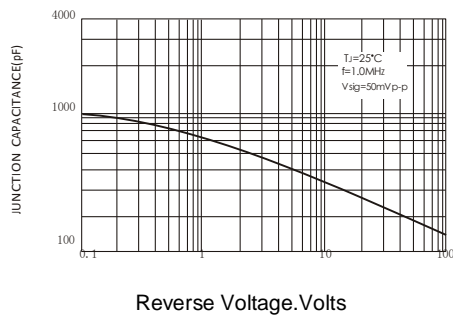
**Typical Instantaneous Forward Characteristics**



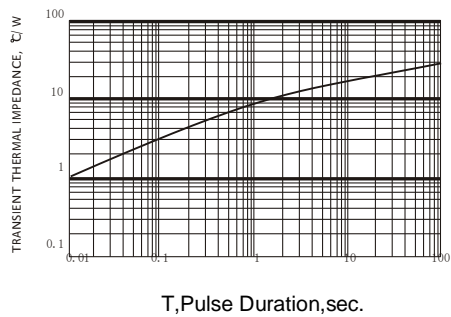
**Typical Reverse Characteristics**



**Typical Junction Capacitance**



**Typical Transient Thermal Impedance**



**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         |