

**Trench MOS Barrier Schottky Rectifier**

**Reverse Voltage - 150 V**

**Forward Current - 5 A**

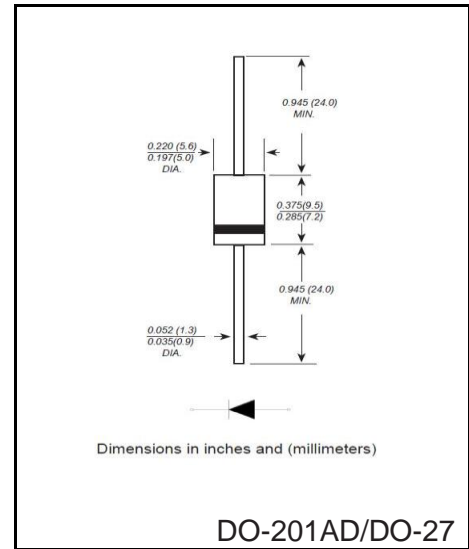


**FEATURES**

- ◆ 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  |           | $V_{RRM}$       | 150        | V     |
| Maximum RMS voltage  |           | $V_{RMS}$       | 150        | V     |
| Maximum DC Blocking Voltage  |           | $V_{DC}$        | 150        | 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 |           | $I_{FSM}$       | 120        | A     |
| Operating Temperature Range  |           | $T_J$           | -40 ~ +150 | °C    |
| Storage Temperature Range  |           | $T_{STG}$       | -40~ +150  | °C    |
| Typical Thermal Resistance Per diode(munted on FR-4 PCB)                                     | DO-27     | $R_{\theta JC}$ | 22         | °C/W  |

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

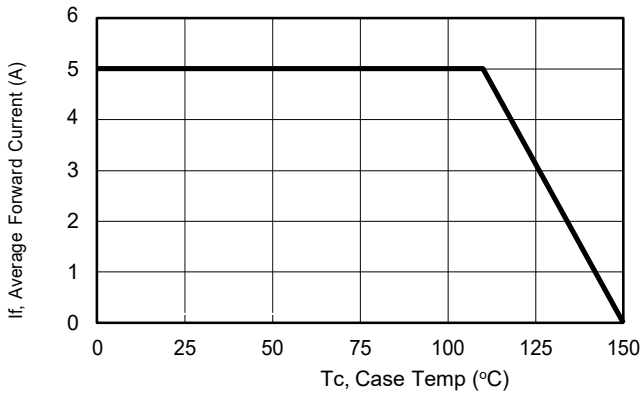
**Electrical Characteristics (Per Leg) unless otherwise specified**

| Characteristics  |          | Symbols | Value      |            | Units |
|--|----------|---------|------------|------------|-------|
| Forward Voltage Drop(Note2)                                      |          | $V_F$   | <b>Typ</b> | <b>Max</b> | V     |
| at $I_F=1A$ Instantaneous forward voltage per diode              | TA=25°C  |         | 0.53       | 0.60       |       |
|  | TA=125°C |         | 0.48       | -          |       |
| at $I_F=5A$ Instantaneous forward voltage per diode              | TA=25°C  |         | 0.89       | 0.95       |       |
|  | TA=125°C | 0.82    | -          |            |       |
| Instantaneous reverse current per diode at rated reverse voltage | TA=25°C  | $I_R$   | 5          | 10         | uA    |
|  | TA=125°C |         | -          | 5          | mA    |

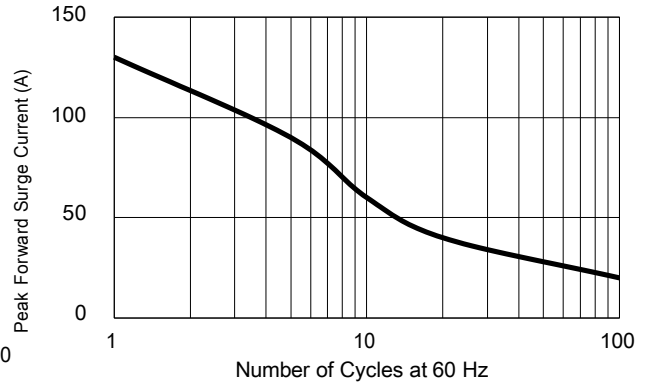
**Note2: (1)Pulse test: 300 μs pulse width, 1 % duty cycle  
(2) Pulse test: Pulse width ≤ 40 ms**

**RATINGS AND CHARACTERISTIC CURVES**

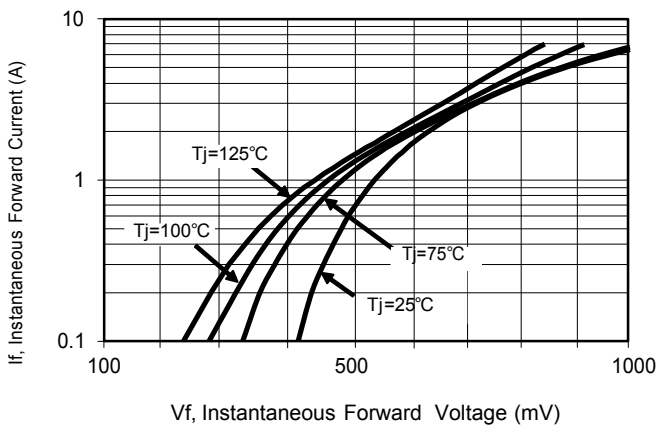
**RATINGS AND CHARACTERISTICS CURVES**



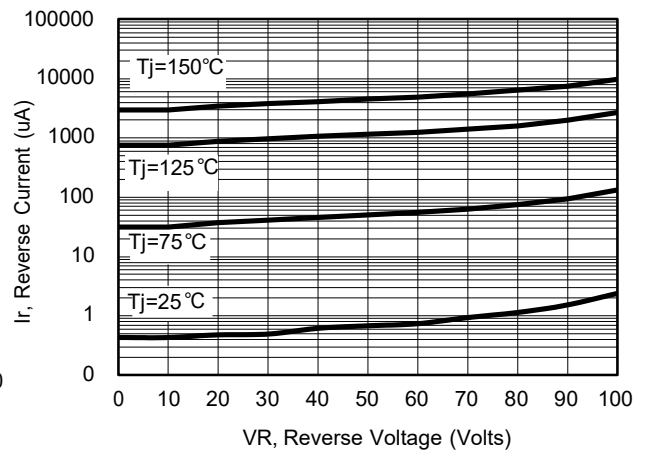
**Current Derating, Case**



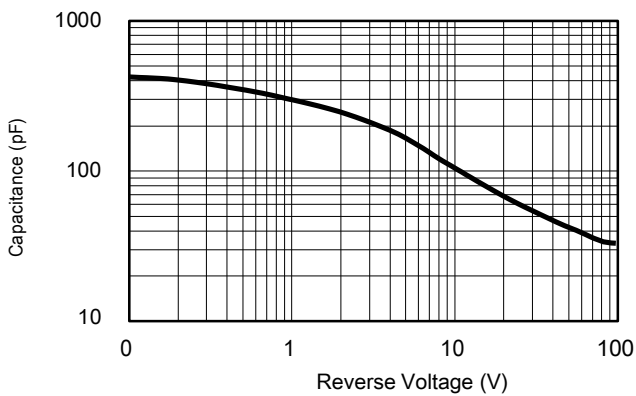
**Maximum Repetitive Surge Current**



**Typical Forward Voltage**



**Typical Reverse Current**



**Typical Junction Capacitance**

**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         |

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Schottky Diodes & Rectifiers](#) category:*

*Click to view products by [YFW Electronics](#) manufacturer:*

Other Similar products are found below :

[MA4E2039](#) [MMBD301M3T5G](#) [RB160M-50TR](#) [D83C](#) [BAS16E6433HTMA1](#) [BAS 3010S-02LRH E6327](#) [BAT 54-02LRH E6327](#)  
[NRVBAF360T3G](#) [NSR05F40QNXT5G](#) [NTE555](#) [JANS1N6640](#) [SS3003CH-TL-E](#) [GA01SHT18](#) [CRS10I30A\(TE85L,QM](#) [MBRA140TRPBF](#)  
[MBRB30H30CT-1G](#) [BAT 15-04R E6152](#) [JANTX1N5712-1](#) [DMJ3940-000](#) [SB007-03C-TB-E](#) [NRVBB20100CTT4G](#) [NRVBM120LT1G](#)  
[NTSB30U100CT-1G](#) [CRG04\(T5L,TEMQ\)](#) [ACDBA1100LR-HF](#) [ACDBA1200-HF](#) [ACDBA240-HF](#) [ACDBA3100-HF](#) [CDBQC0530L-HF](#)  
[ACDBA260LR-HF](#) [ACDBA1100-HF](#) [10BQ015-M3/5BT](#) [NRVBM120ET1G](#) [VSSB410S-M3/5BT](#) [1N5819T-G](#) [PDS1040Q-13](#) [B160BQ-13-F](#)  
[SDM05U20CSP-7](#) [BAS 70-07 E6433](#) [B140S1F-7](#) [HSM560Je3/TR13](#) [DDB2265-000](#) [ZHCS506QTA](#) [HSM190Je3/TR13](#) [B330AF-13](#)  
[ACDBUC0230-HF](#) [SDM1U100S1F-7](#) [MBR10200CTF-G1](#) [CDLL5712](#) [DMF2822-000](#)