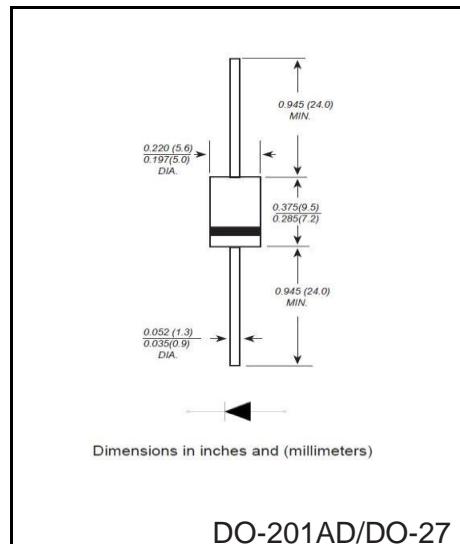


**Trench MOS Barrier Schottky Rectifier**
**Reverse Voltage - 60 V**
**Forward Current - 10 A**
**FEATURES**

- ◆ 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 <sub>RRM</sub>	60	V
Maximum RMS voltage	V <sub>RMS</sub>	60	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	60	V
Maximum Average Forward Rectified Current Per diode	I <sub>F(AV)</sub>	10	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave superimposed on rated load per diode	I <sub>FSM</sub>	200	A
Operating Temperature Range	T <sub>J</sub>	-40 ~ +150	°C
Storage Temperature Range	T <sub>STG</sub>	-40 ~ +150	°C
Typical Thermal Resistance Per diode(munted on FR-4 PCB)	DO-27	R <sub>θJC</sub>	22 °C/W

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

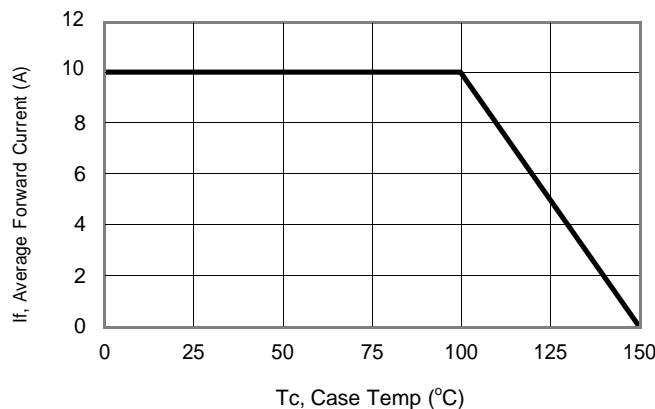
**Electrical Characteristics (Per Leg) unless otherwise specified**

Characteristics	Symbols	Value		Units
Forward Voltage Drop(Note2)	V <sub>F</sub>	Typ	Max	V
at I <sub>F</sub> =3A Instantaneous forward voltage per diode		0.38	-	
		0.31	-	
at I <sub>F</sub> =10A Instantaneous forward voltage per diode		0.45	-	
		0.39	-	
Instantaneous reverse current per diode at rated reverse voltage	I <sub>R</sub>	-	80	uA
		-	10	mA

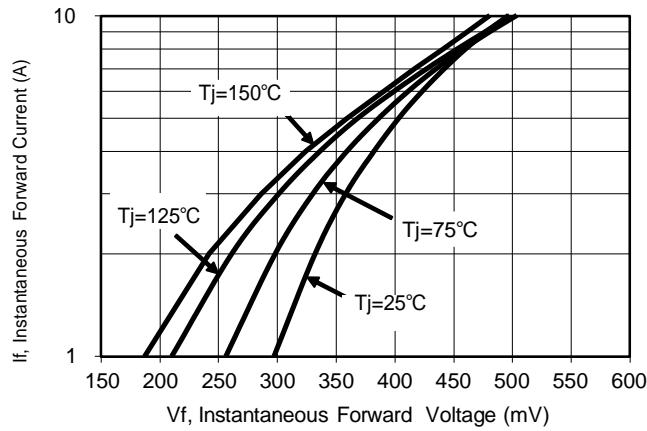
Note2: (1)Pulse test: 300 μs pulse width, 1 % duty cycle

(2) Pulse test: Pulse width ≤ 40 ms

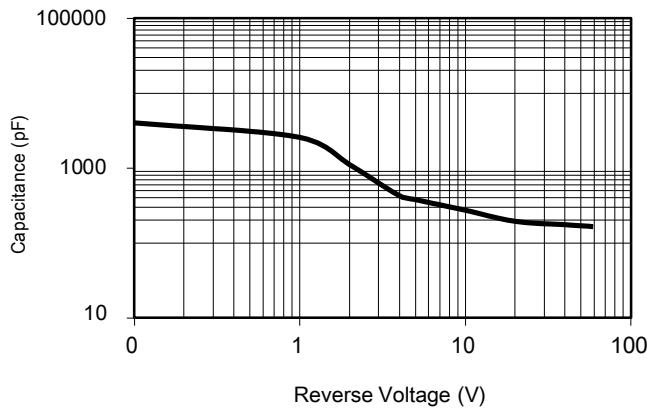
## RATINGS AND CHARACTERISTIC CURVES



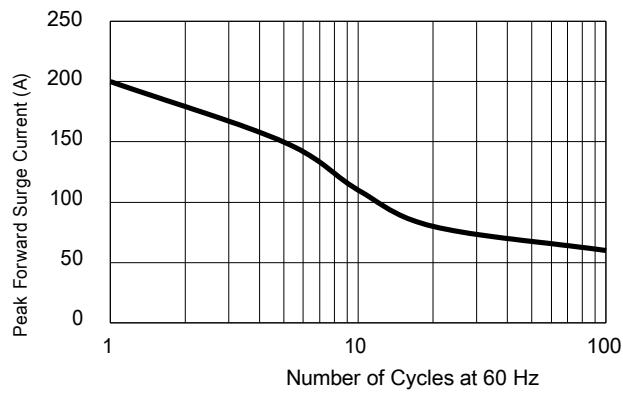
**Current Derating, Case**



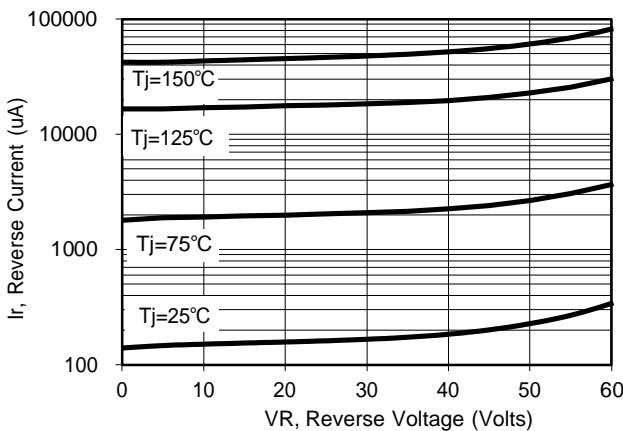
**Typical Forward Voltage**



**Typical Junction Capacitance**

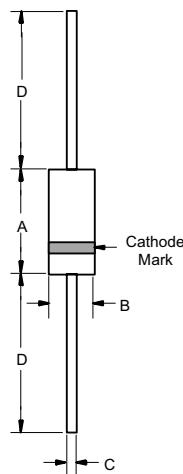


**Maximum Repetitive Surge Current**



**Typical Reverse Current**

## Package Outline DO-201AD(DO-27)



DIM	DIMENSIONS				NOTE	
	INCHES		MM			
	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