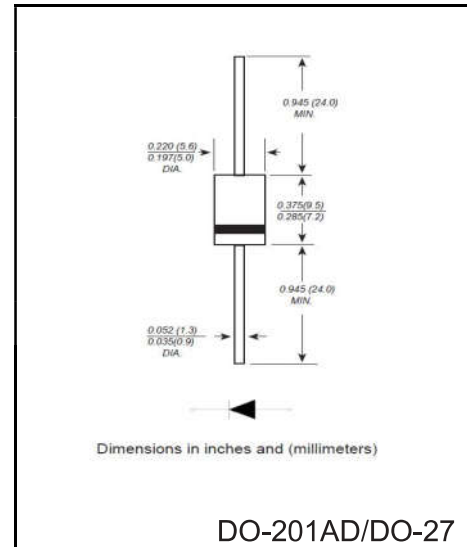


Trench MOS Barrier Schottky Rectifier
Reverse Voltage - 40 V
Forward Current - 10 A
FEATURES

- ◆ Plastic Package Has Underwriters Laboratory Flammability Classification 94V-0
- ◆ Metal Silicon Junction, Majority Carrier Conduction
- ◆ Guard Ring For Over Voltage Protection
- ◆ Low Power Loss ,High Efficiency
- ◆ High Current Capability ,Low Forward Voltage Drop, High Surge Capability
- ◆ For Use In Low Voltage ,High Frequency Inverters,Free Wheeling ,And Polarity Protection Applications
- ◆ High Temperature Soldering:260°C MAX At 10 Seconds


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

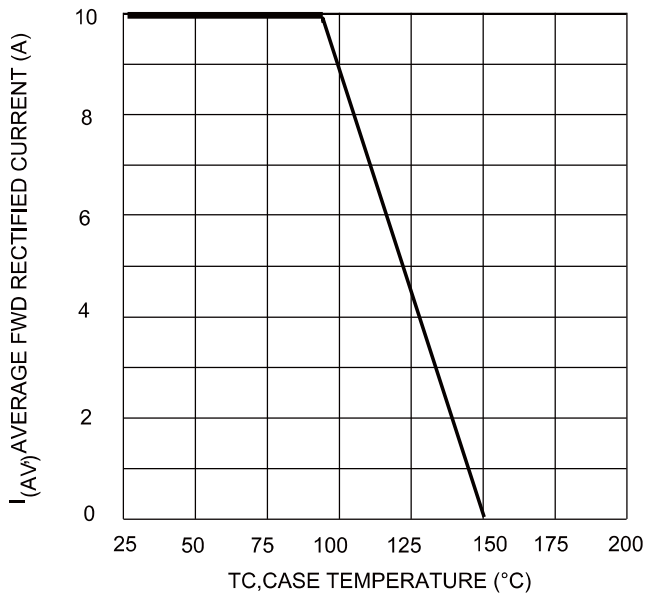
Parameter	Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS voltage	V_{RMS}	40	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Maximum Average Forward Rectified Current(See FIG.1)	$I_{F(AV)}$	10	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave superimposed on rated load per diode	I_{FSM}	125	A
Operating Temperature Range	T_J	-65 ~ +150	°C
Storage Temperature Range	T_{STG}	-65 ~ +150	°C
Thermal resistance from junction to ambient	DO-27	$R_{\theta JC}$	25 °C/W

Electrical Characteristics (Per Leg) unless otherwise specified

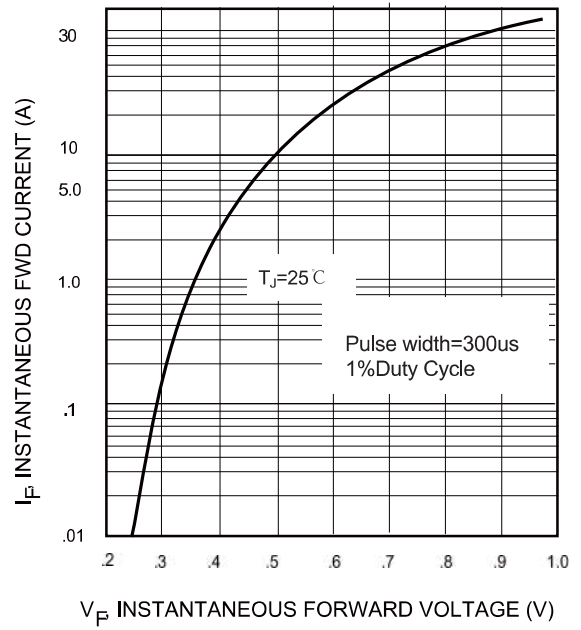
Characteristics	Symbols	Value		Units	
Maximum instantaneous forward voltage at $I_{F(AV)}$ (Note 1)	V_F	Typ	Max	V	
at $I_F=2A$ Instantaneous forward voltage per diode		$T_J=25^\circ C$	0.40		-
		$T_J=105^\circ C$	0.36		-
at $I_F=10A$ Instantaneous forward voltage per diode		$T_J=25^\circ C$	0.51		0.53
	$T_J=105^\circ C$	0.48	-		
Maximum Reverse Current at Rated DC Blocking Voltage(Note 2)	I_R	$T_J=25^\circ C$	70	uA	
		$T_J=105^\circ C$	-	40	mA

Note: (1)Pulse test: 300 μs pulse width, 1 % duty cycle
 (2) Pulse test: Pulse width \leq 40 ms

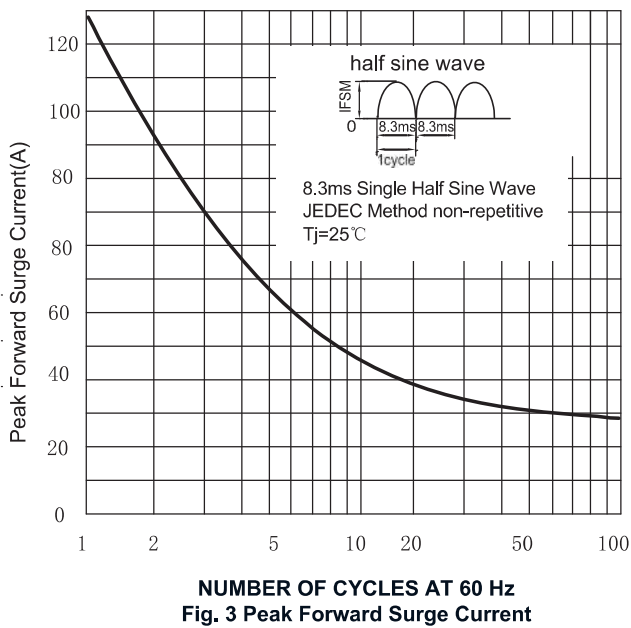
RATINGS AND CHARACTERISTIC CURVES



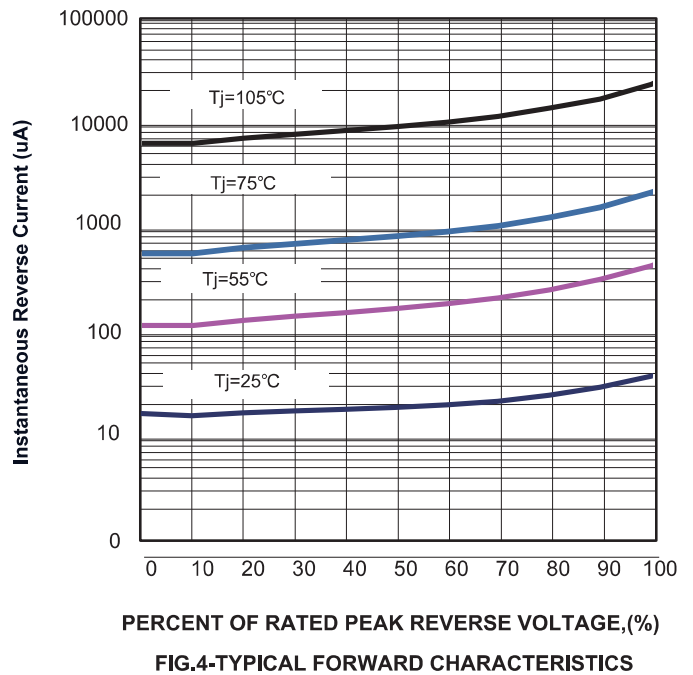
TC, CASE TEMPERATURE (°C)
Fig. 1 Forward Derating Curve



V_F INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 2 Typical Forward Characteristics

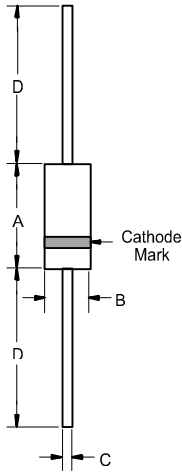


NUMBER OF CYCLES AT 60 Hz
Fig. 3 Peak Forward Surge Current



PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)
FIG.4-TYPICAL FORWARD 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

单击下面可查看定价，库存，交付和生命周期等信息

[>>YFW\(佑风微\)](#)