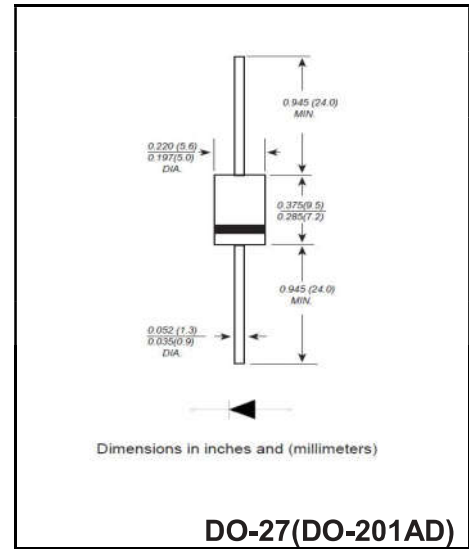


**Schottky Barrier Rectifier**
**Reverse Voltage - 45V**
**Forward Current - 10 A**
**FEATURES**

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0 Low forward voltage drop
- ◆ 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,per JESD 22-B106 or MIL-STD-750,method 2026
- ◆ Case: JEDEC DO-27(D0-201AD) molded plastic body


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

Parameter		Symbols	YFW10L45	Units
Maximum Repetitive Peak Reverse Voltage		$V_{RRM}$	45	V
Maximum RMS voltage		$V_{RMS}$	31.5	V
Maximum DC Blocking Voltage		$V_{DC}$	45	V
Maximum Average Forward Rectified Current	Per diode	$I_{F(AV)}$	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 to +150	°C
Storage Temperature Range		$T_{STG}$	-65 to +150	°C
Thermal resistance from junction to ambient	DO-27	$R_{\theta JC}$	25	°C/W

**Note1: Thermal resistance from Junction to case per leg mounted on heatsink.**
**Electrical Characteristics (Per Leg) unless otherwise specified**

Characteristics		Symbols	Min	Typ	Max	Units
Maximum instantaneous forward voltage at $I_{F(AV)}$ (Note 1)	1A@ T=25°C 2A@T=25°C 3A@T=25°C 5A@T=25°C 10A@T=25°C	$V_F$	-	0.37	-	V
	1A@ T=105°C 2A@T=105°C 3A@T=105°C 5A@T=105C 10A@T=105C		-	0.29	-	
Maximum Reverse Current at RatedDC Blocking Voltage(Note 2)	TA=25°C	$I_R$	-	70	120	uA
	TA=125°C		-	-	40	mA

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

**RATINGS AND CHARACTERISTIC CURVES**

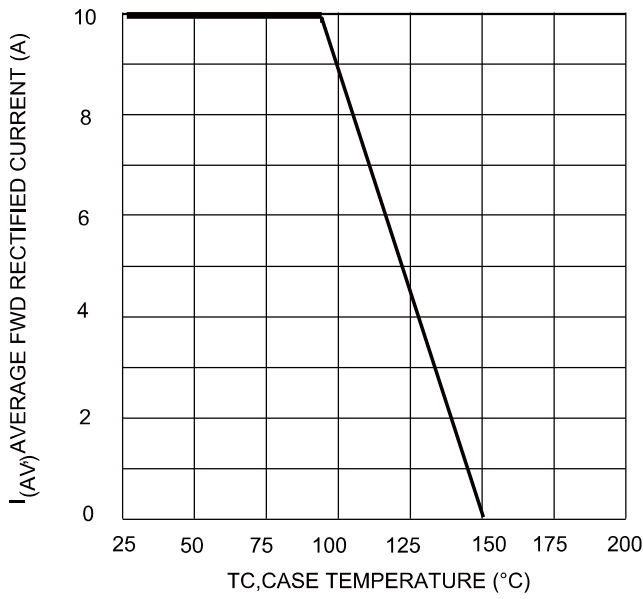


Fig. 1 Forward Derating Curve

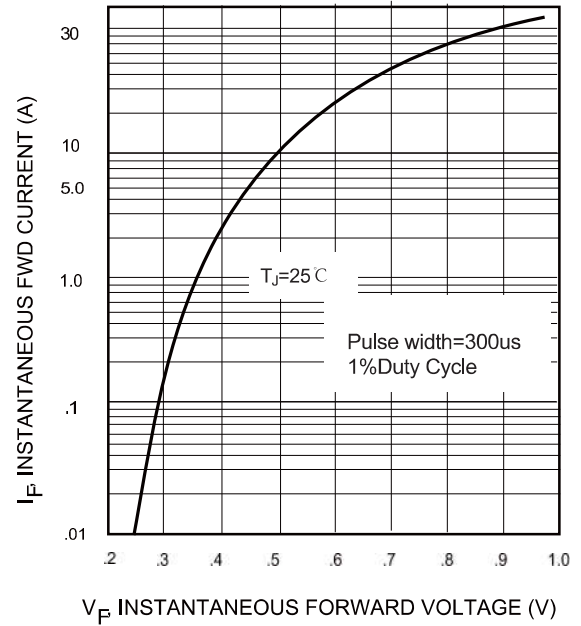


Fig. 2 Typical Forward Characteristics

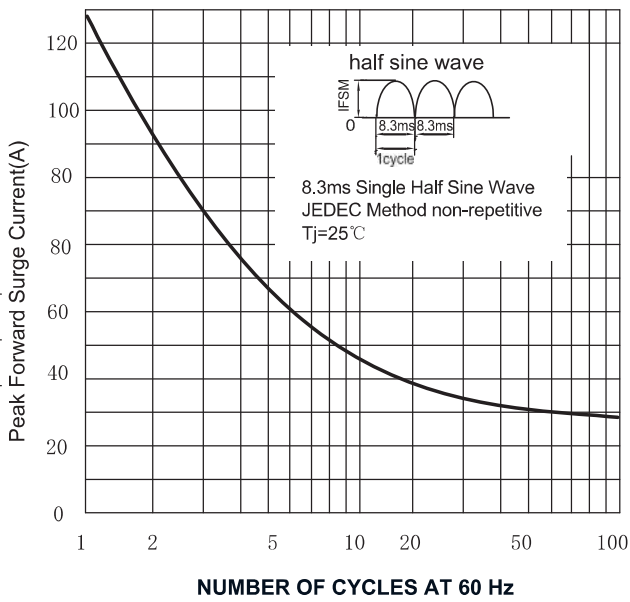


Fig. 3 Peak Forward Surge Current

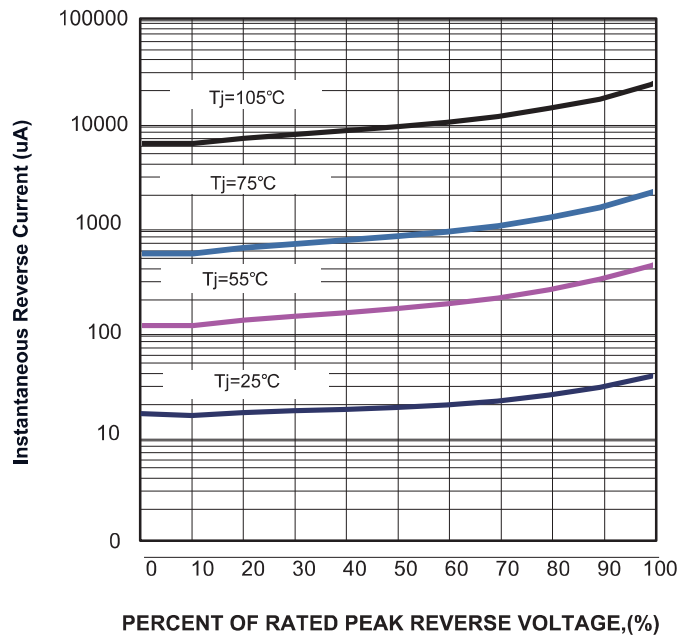
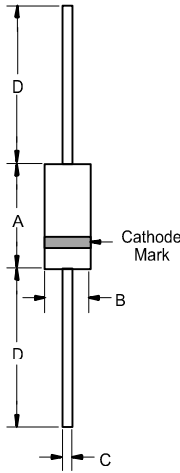


FIG.4-TYPICAL FORWARD CHARACTERISTICS

**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\(佑风微\)](#)