

Schottky Barrier Rectifiers

Reverse Voltage - 400 V

I_{F(AV)} - 5.0 A

FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Low forward voltage drop
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed 250 °C/10 seconds at terminals

MECHANICAL DATA

- ◆ Case: DO-201AD/DO-27
- ◆ Terminals: Solderable per MIL-STD-750, Method 2026
- ◆ Approx. Weight: 0.98g /0.0345oz



Maximum Ratings Ta=25 °C unless otherwise specified

Parameter	Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS voltage	V_{RMS}	28	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Maximum Average Forward Rectified Current at $T_L=110\text{ }^{\circ}\text{C}$	$I_{F(AV)}$	5.0	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	-55 ~ +150	°C
Storage Temperature Range	T_{STG}	-55 ~ +150	°C
Typical thermal resistance	$R_{\theta JA}$	55	°C/W

Electrical Characteristics Ta=25 unless otherwise specified

Characteristics		Symbols	Value		Units
Forward Voltage Drop		V_F	Typ	Max	V
instantaneous forward voltage at 5.0A	TA=25°C		0.36	0.48	
	TA=125°C		0.30	-	
DC reverse current reverse voltage at rated DC blocking voltage	TA=25°C	I_R	-	0.5	mA
	TA=125°C		-	50	

Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

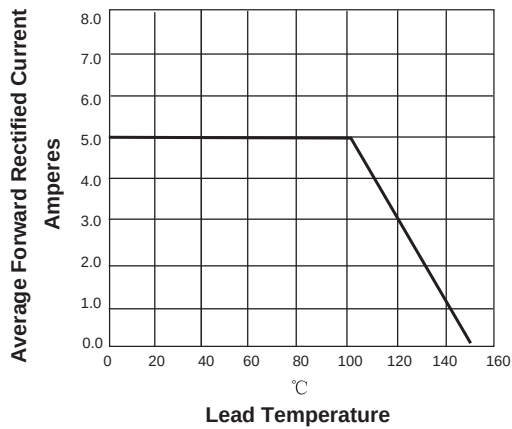


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

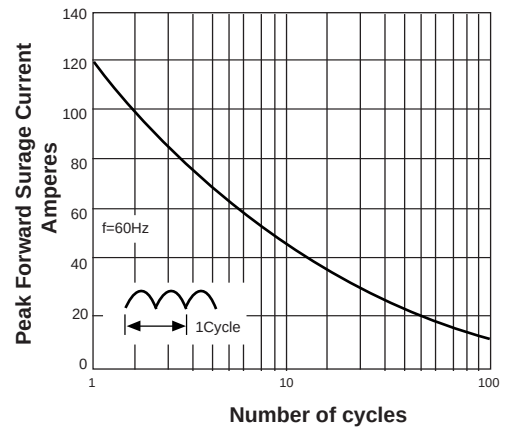


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

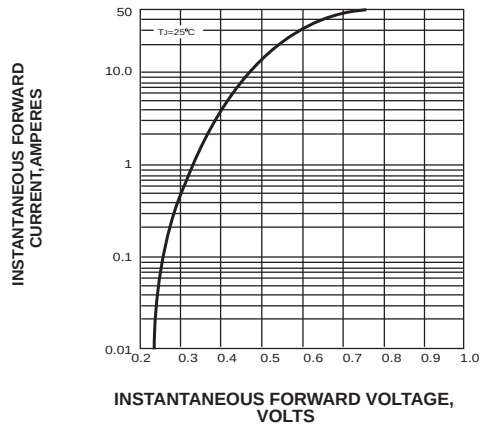
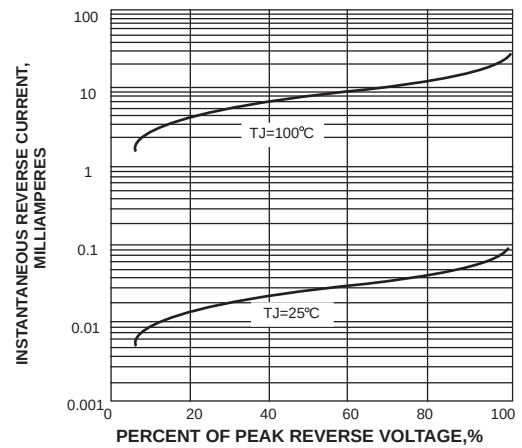


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



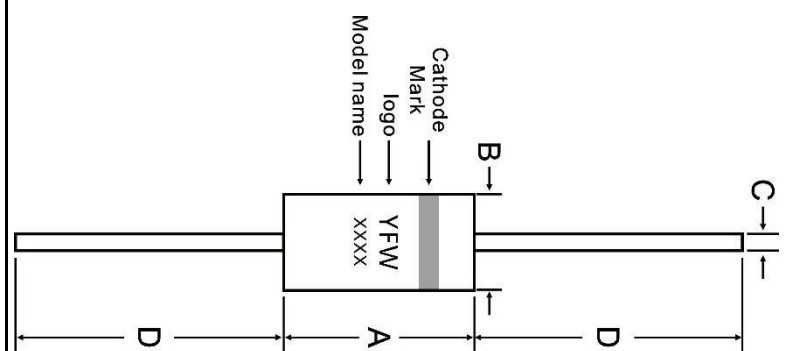
Ordering information

Package	Packing Description	Packing Quantity
DO-201AD/DO-27	bulk	250PCS/500PCS/Inner Box 12500PCS/Carton
	ammo pack	1000PCS/1250PCS/Inner Box 10000PCS/12500PCS/Carton

Package Dimensions

DO-201AD/DO-27

Dim.	Millimeter(mm)		INCHES	
	Min.	Max.	Min.	Max.
A	7.20	9.50	0.285	0.375
B	5.0	5.6	0.190	0.220
C	1.20	1.30	0.048	0.052
D	24.0	26.6	0.945	1.047



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