

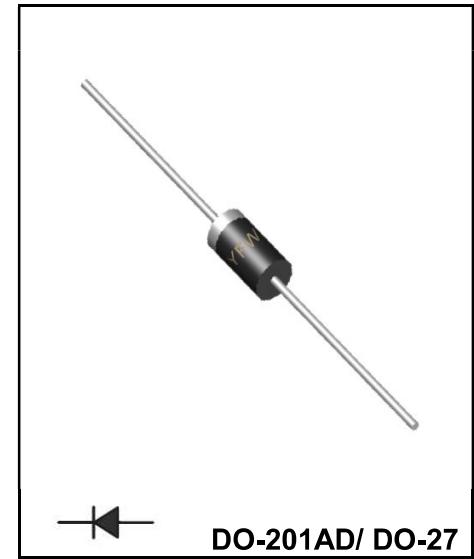
Standard Silicon Rectifiers

Reverse Voltage - 1600V

Forward Current - 3.0A

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Open Junction chip
- 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 : Solder plated, solderable per MIL-STD-750, Method 2026

Polarity : Polarity symbol marking on body

Mounting Position : Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase. half wave. 60HZ. resistive or inductive load. For capacitive load. derate current by 20%

Parameter	SYMBOLS	BY256	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1600	V
Maximum RMS Voltage	V_{RMS}	1120	V
Maximum DC Blocking Voltage	V_{DC}	1600	V
Maximum average forward rectified current at $T_L = 100^\circ\text{C}$	$I_{(AV)}$	3.0	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	150	A
Maximum instantaneous forward voltage at 3.0A	V_F	1.1	V
Maximum Reverse Current $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A=125^\circ\text{C}$	I_R	10.0 500.0	μA
Typical junction capacitance (Note1)	C_J	50	pF
Typical Thermal Resistance	R_{QJA}	45	$^\circ\text{C}/\text{W}$
Operating Junction Temperature Range	T_J	-55 to 150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to 150	$^\circ\text{C}$

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

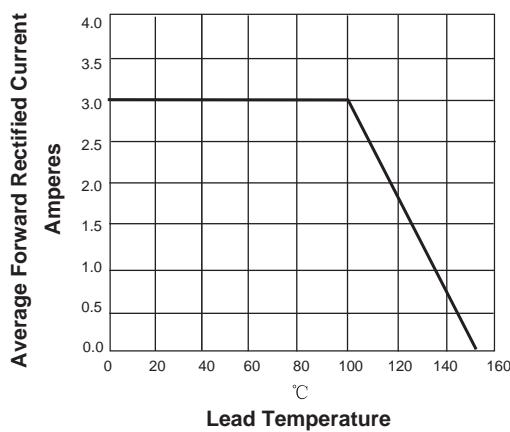


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

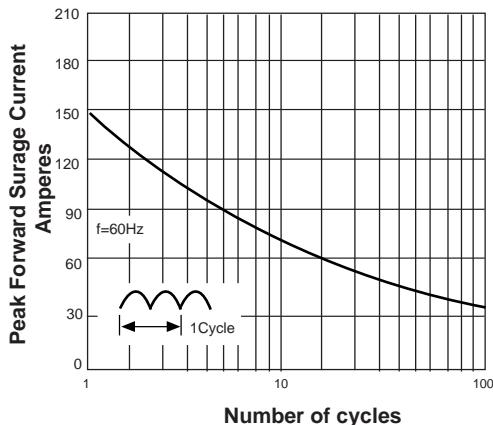


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

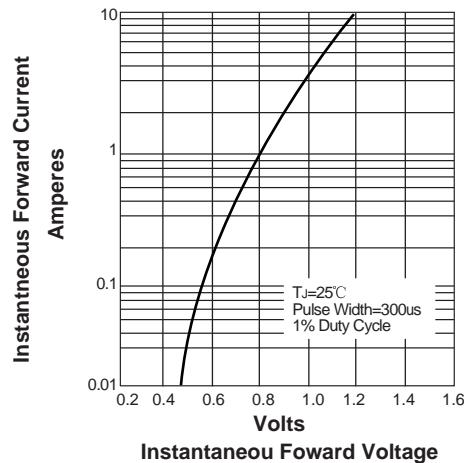
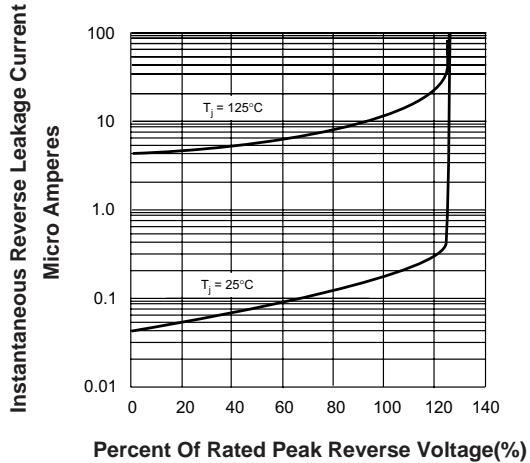


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



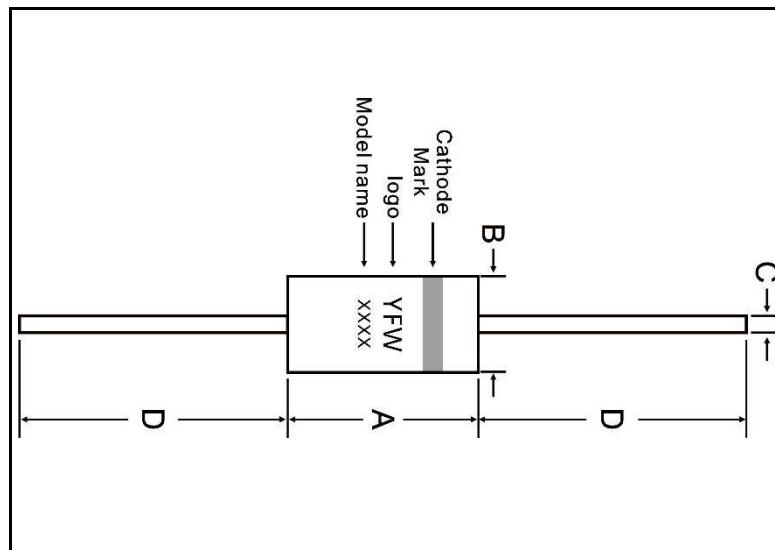
Ordering information

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	9.20	9.50	0.362	0.374
B	5.2	5.7	0.205	0.224
C	1.20	1.30	0.048	0.052
D	24.3	26	0.957	1.02



The diagram shows a top-down view of the DO-201AD/DO-27 package. It features a central rectangular body with a 'YFW' logo and 'xxxx' text. A vertical 'Cathode Mark' is located on the right side of the central body. The package has four lead wires extending from the bottom. Dimension 'A' is the height of the central body, 'B' is the width of the central body, 'C' is the thickness of the central body, and 'D' is the total height including the leads. Arrows labeled 'A', 'B', 'C', and 'D' point to their respective dimensions. Labels 'Model name', 'Logo', and 'Cathode Mark' are also present.

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