

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 $T_L = 100\text{ }^{\circ}\text{C}$	$I_{(AV)}$	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 at Rated DC Blocking Voltage $T_A = 25^{\circ}\text{C}$ $T_A = 125^{\circ}\text{C}$	I_R	10.0 500.0	μA
Typical junction capacitance (Note1)	C_J	50	pF
Typical Thermal Resistance	R_{QJA}	45	$^{\circ}\text{C/W}$
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

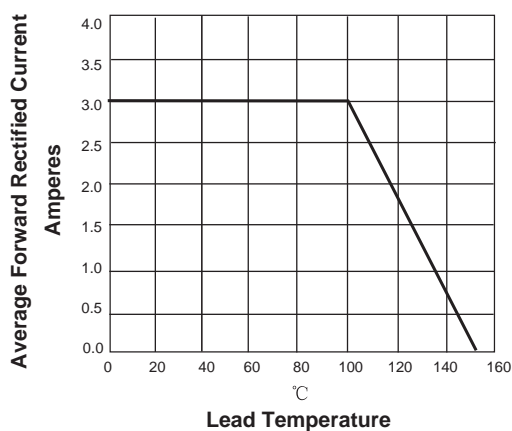


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

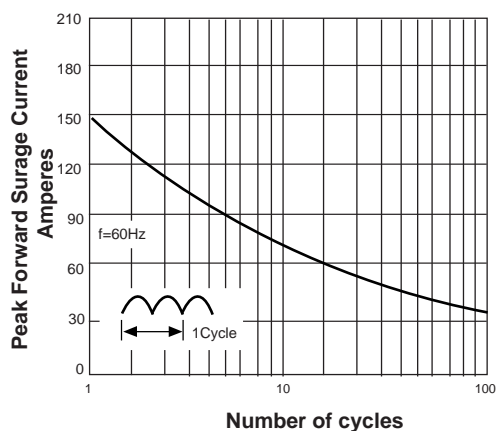


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

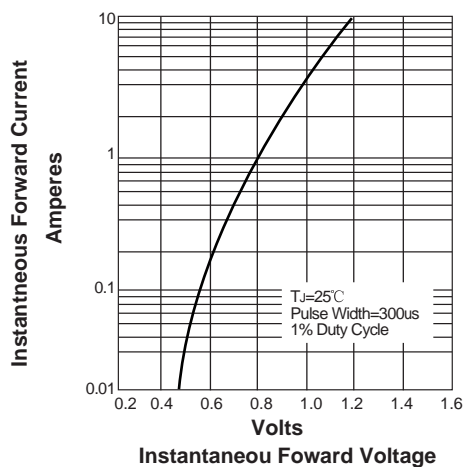
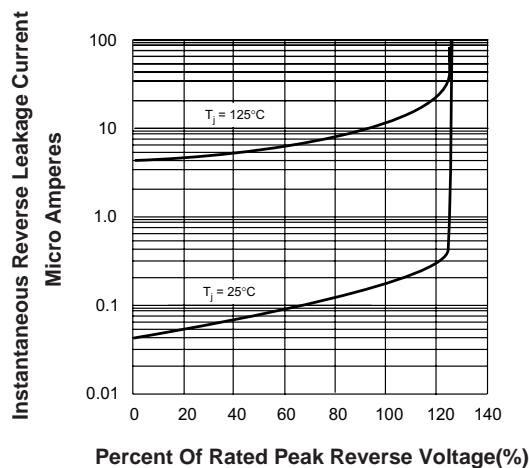


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



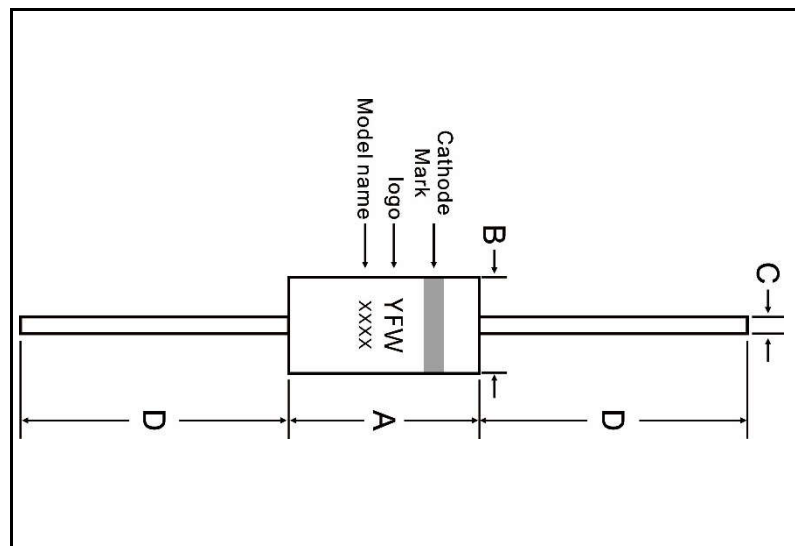
Ordering information

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



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