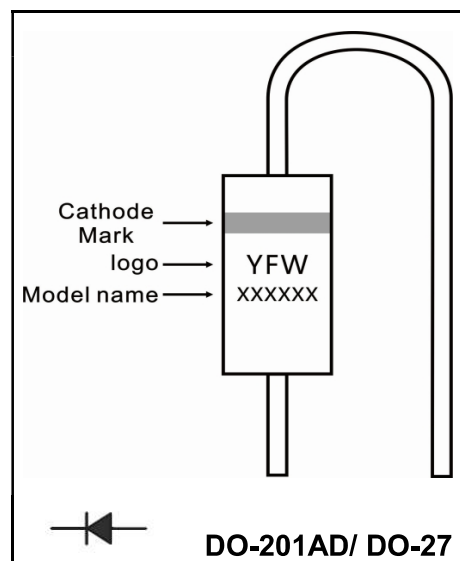


Super Fast Silicon Rectifiers
Reverse Voltage - 100 to 600 V
Forward Current - 5 A
FEATURES

- ◆For surface mounted applications
- ◆Low profile package
- ◆Glass Passivated Chip Junction
- ◆Ideal for automated placement
- ◆Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- ◆Case: DO-201AD/DO-27
- ◆Terminals: Solderable per MIL-STD-750, Method 2026


Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	SF52G NF	SF53G NF	SF54G NF	SF56G NF	SF57G NF	SF58G NF	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	100	150	200	400	500	600	V
Maximum RMS voltage	V _{RMS}	70	105	140	280	350	420	V
Maximum DC Blocking Voltage	V _{DC}	100	150	200	400	500	600	V
Maximum Average Forward Rectified Current at T _c = 100 °C	I _{F(AV)}	5.0						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	200.0						A
Maximum Instantaneous Forward Voltage at 5.0A	V _F	0.95			1.25	1.65		V
Maximum DC Reverse Current T _a = 25 °C at Rated DC Blocking Voltage T _a =125 °C	I _R	10 500						μA
Maxinum reverse recovery time ^(Note 1)	T _{rr}	35						nS
Typical Junction Capacitance ^(Note 2)	C _j	78.0						pF
Typical Thermal Resistance	R _{θJA}	45.0						°C/W
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150						°C

(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

(2) Reverse recovery time test condition: $I_F=0.5\text{A}$ $I_R=1.0\text{A}$ $I_{rr}=0.25\text{A}$

Ratings and Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

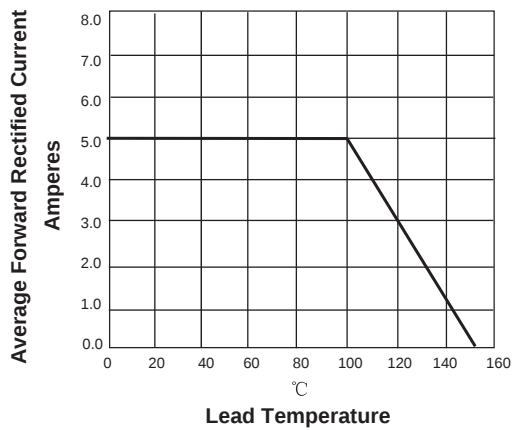


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

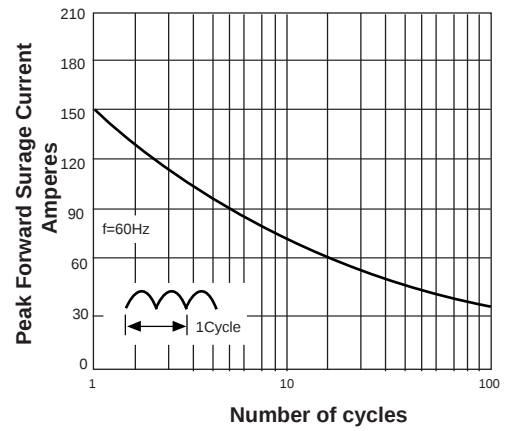


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

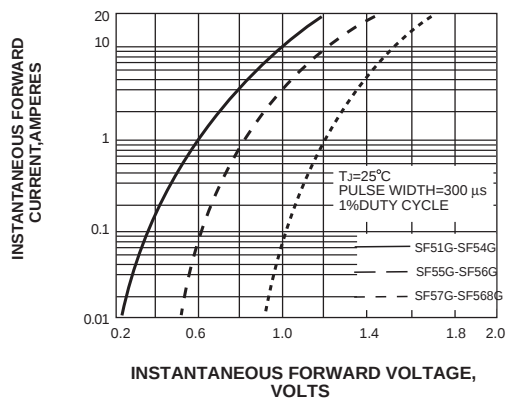
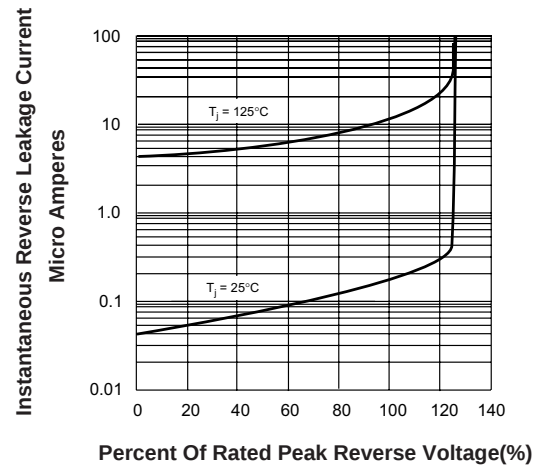


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



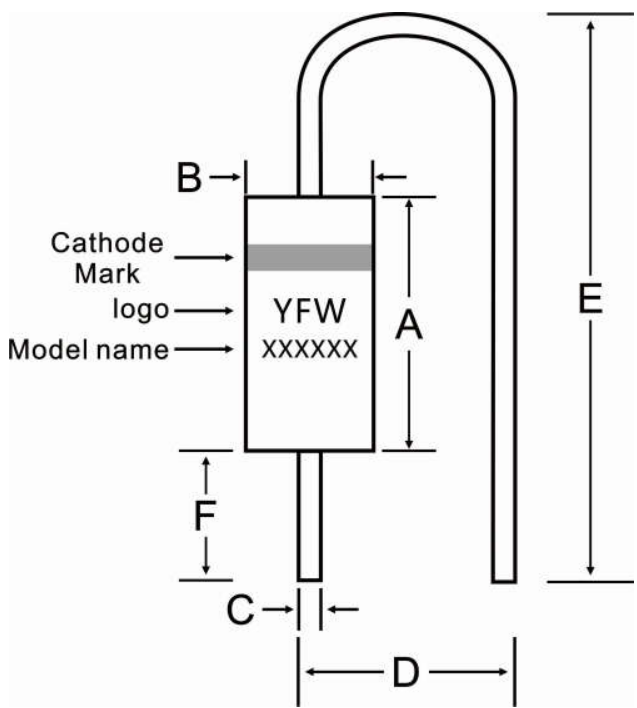
Ordering information

Package	Packing Description	Packing Quantity
DO-201AD/DO-27	bulk	1000pcs/Bag 2000PCS/Box

Package Dimensions

DO-201AD/DO-27

Dim.	Millimeter(mm)		INCHES	
	Min.	Max.	Min.	Max.
A	-	9.50	-	0.370
B	-	6.40	-	0.250
C	1.20	1.30	0.048	0.052
E	16.50	17.00	0.65	0.67
D	6.30	6.80	0.25	0.27
F	5.00	5.50	0.20	0.22



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