Super Fast Silicon Rectifiers

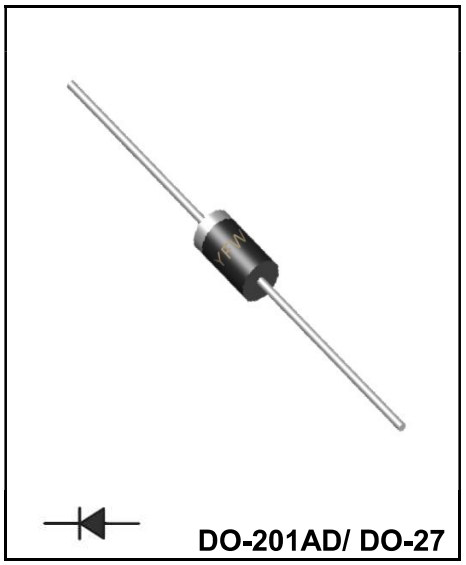
Reverse Voltage - 100 to 600 V
Forward Current - 6 A

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
- Approx. Weight: 0.98g / 0.0345oz



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	SF62G	SF63G	SF64G	SF66G	SF67G	SF68G	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	$I_{F(AV)}$	6.0						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	220.0						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)	Trr	35						nS
Typical Junction Capacitance(Note 2)	C_j	78.0						pF
Typical Thermal Resistance	$R_{\theta JA}$	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: IF=0.5A IR=1.0A Irr=0.25A

Ratings and Characteristic Curves

Fig. 1 - Forward Current Derating Curve

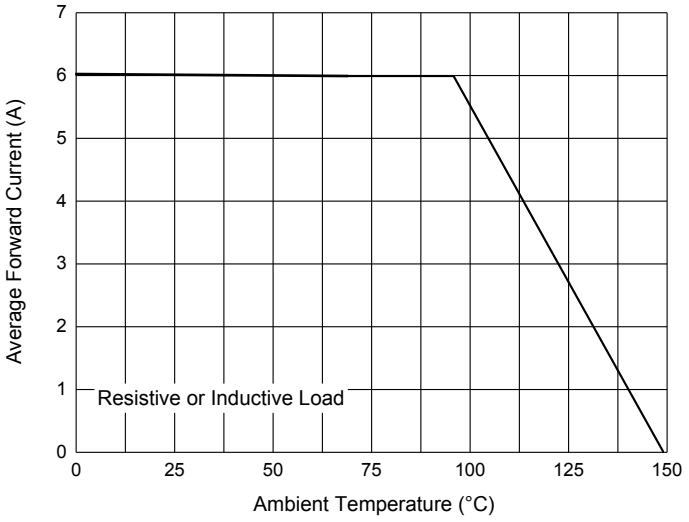


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

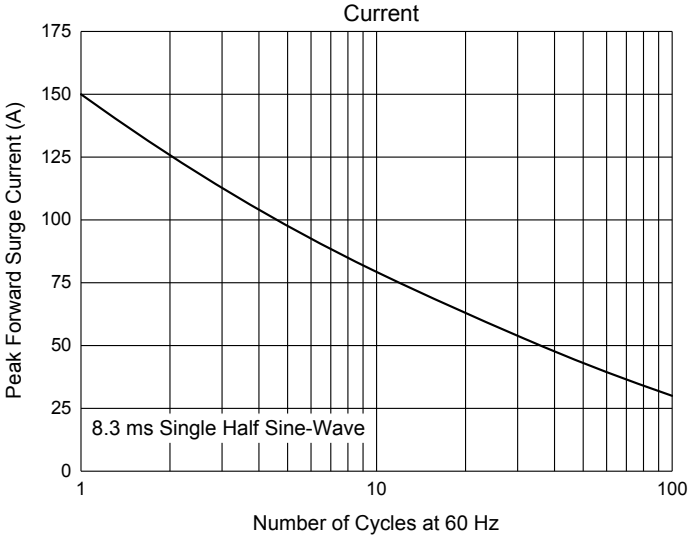


Fig. 3 - Typical Instantaneous Forward Characteristics

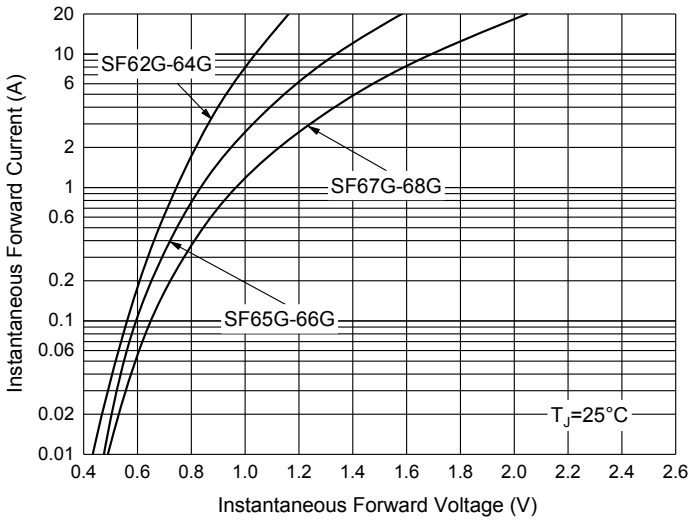
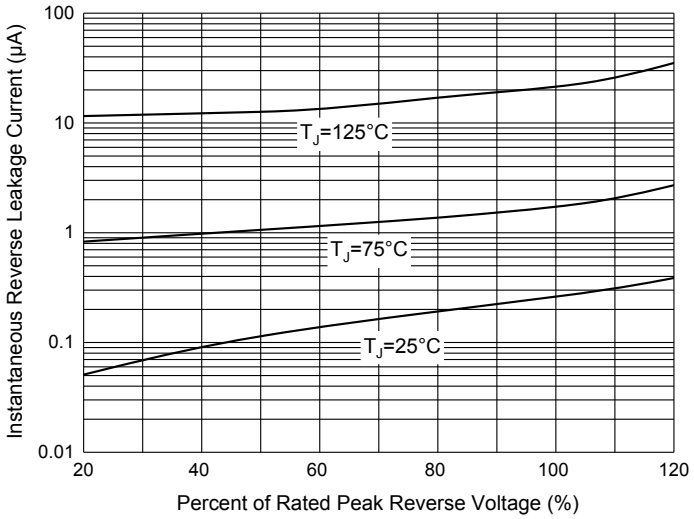


Fig. 4 - Typical Reverse Leakage Characteristics

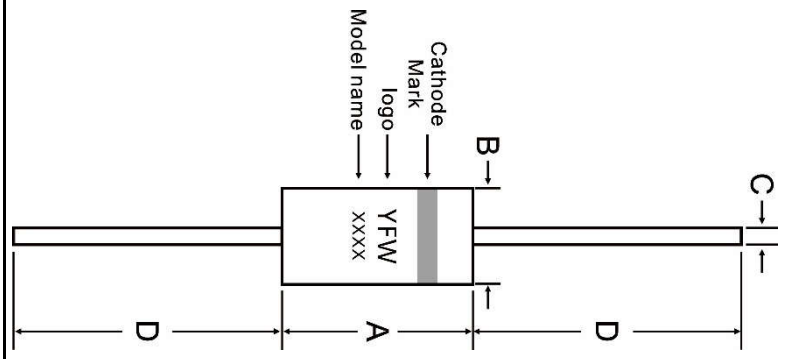


Ordering information

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	-	9.50	-	0.370
B	-	6.40	-	0.250
C	1.20	1.30	0.048	0.052
D	25.4	-	1.00	-

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