



Glass Passivated Super Fast Rectifiers

Reverse Voltage 50 to 600 Volts Forward Current 6.0 Amperes

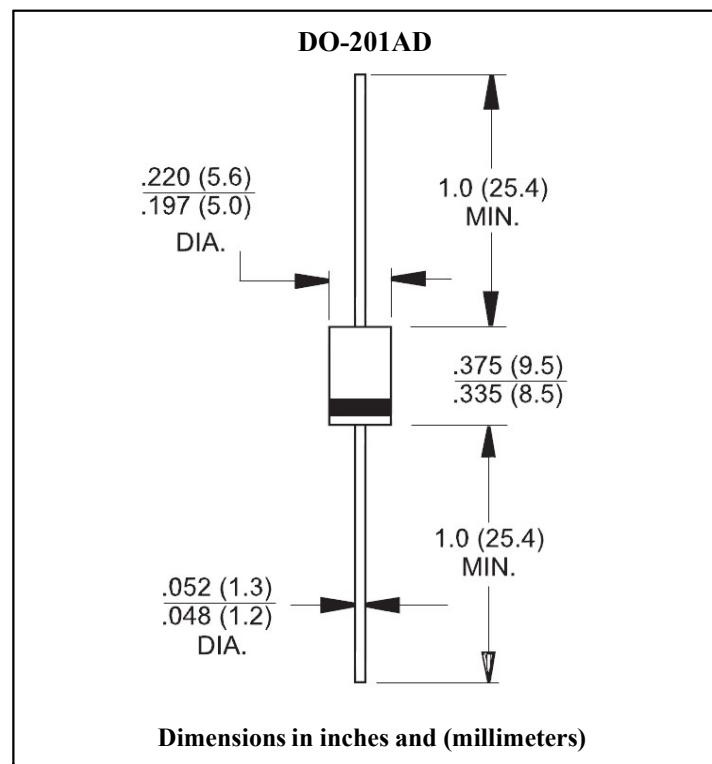
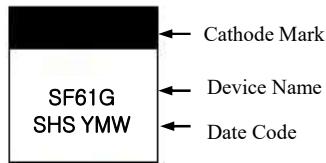
Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

Mechanical Data

- Case : Molded plastic
- Epoxy : UL 94V-O rate flame retardant
- Lead : Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- Polarity : Color band denotes cathode end
- High temperature soldering guaranteed : 260°C/10 seconds /0.375",(9.5mm) lead lengths at 5lbs.,(2.3kg) tension
- Weight : 1.1grams

Marking



Maximum Ratings & Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified

Single phase half wave 60 Hz, resistive or inductive load

For capacitive load, derate current by 20%

Parameter	Symbol	SF 61G	SF 62G	SF 63G	SF 64G	SF 65G	SF 66G	SF 67G	SF 68G	Unit	Remark				
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	500	600	V					
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	350	420	V					
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	500	600	V					
Maximum Average Forward Rectified Current 0.375" (9.5mm)Lead Length	I _{F(AV)}	6.0								A					
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	150								A					
Maximum Instantaneous Forward Voltage @ 6.0A	V _F	0.95			1.3		2.0		V						
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	5.0								uA	Ta=25°C				
		100								uA	Ta=125°C				
Maximum Reverse Recovery Time	trr	35								ns	Note 1				
Typical Junction Capacitance	C _J	100			50		50		pF	Note 2					
Typical Thermal Resistance	R _{th(j-a)}	40								°C /W	Note 3				
	R _{th(j-l)}	5								°C /W					
Operation Junction Temperature Range	T _J	-55 to +150								°C					
Storage Temperature Range	T _{STG}	-55 to +150								°C					

Note 1. Reverse Recovery Test Conditions : I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

Note 2. Measured at 1MHz and Applied Reverse Voltage of 4.0Volts D.C.

Note 3. Mount on Cu-Pad Size 16mm×16mm on P.C.B.



Ratings and Characteristics Curves (Ta=25°C unless otherwise noted)

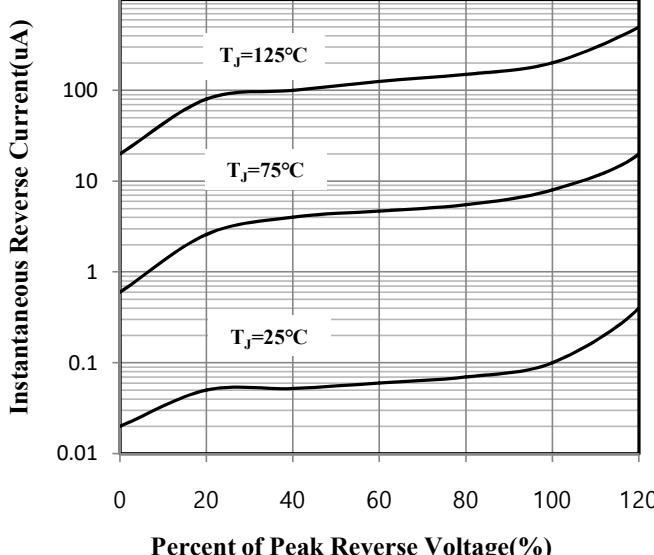
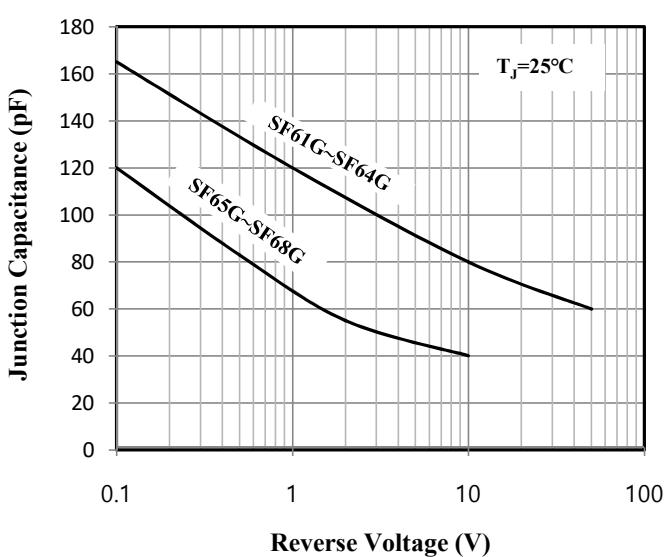
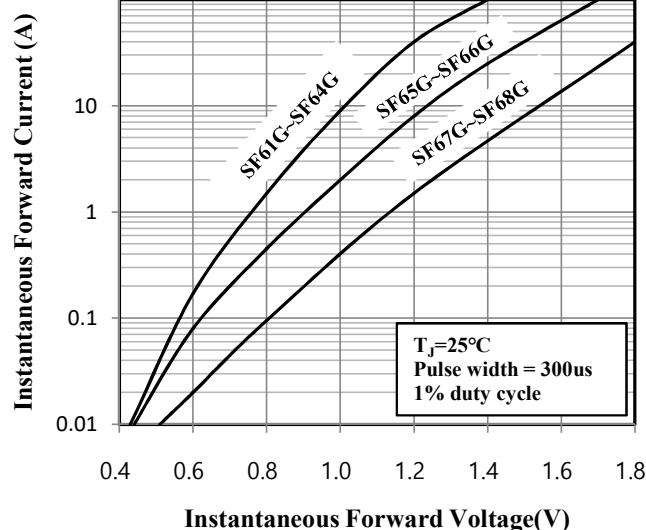
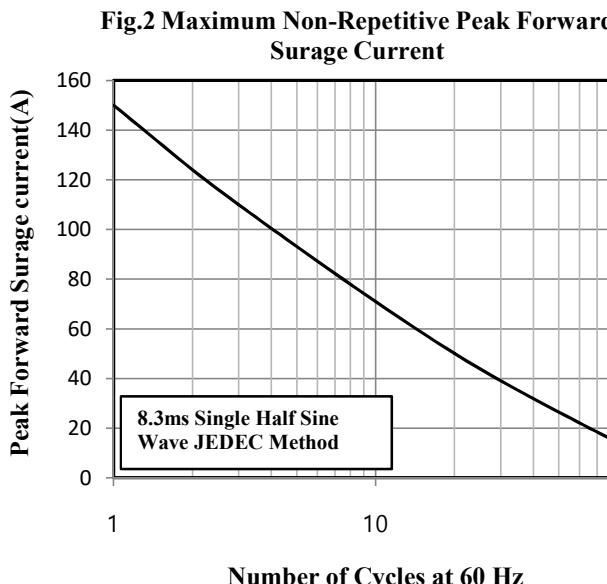
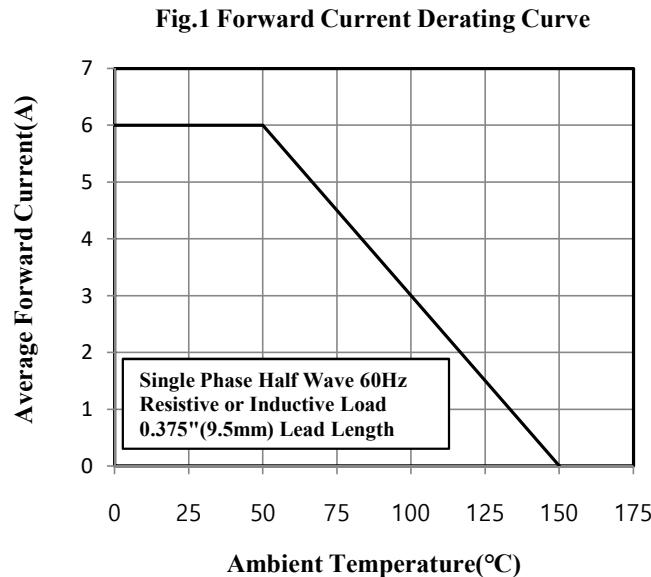


Fig. 6 Reverse Recovery Time Charateristic and Test Circuit Diagram

