

SF20AG - SF20JG

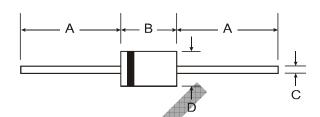
2.0A SUPER-FAST GLASS PASSIVATED RECTIFIER

Features

- Glass Passivated Die Construction
- Super-Fast Switching for High Efficiency
- Surge Overload Rating to 60A Peak
- Low Reverse Leakage Current
- Lead Free Finish, RoHS Compliant (Note 4)

Mechanical Data

- Case: DO-15
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Finish Tin. Solderable per MIL-STD-202, Method 208 @3
- Polarity: Cathode Band
- Marking: Type Number
- Ordering Information: See Page 3
- Weight: 0.35 grams (approximate)



DO-15					
Dim	Min Max				
Α	25.40	_			
В	5.50	7.62			
С	0.686	0.889			
D	2.60	3.6			
All Dimensions in mm					

Maximum Ratings and Electrical Characteristics @TA = 25 ℃ unless otherwise specified

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

Characteristic		Symbol	SF20 AG	SF20 BG	SF20 CG	SF20 DG	SF20 FG	SF20 GG	SF20 HG	SF20 JG	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage (Note 5)		V _{RRM} V _{RWM} V _R	50	100	150	200	300	400	500	600	٧
RMS Reverse Voltage		V _{R(RMS)}	35	70	105	140	210	280	350	420	٧
Average Rectified Output Current (Note 1)	@ T _A = 75°C	Io	2.0				Α				
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed on Ra	ted Load	I _{FSM}				6	0				Α
Forward Voltage	@ I _F = 2.0A	V_{FM}	0.95 1.3 1.5		.5	٧					
Peak Reverse Current at Rated DC Blocking Voltage (Note 5)	@ T _A = 25°C @ T _A = 100°C	I _{RM}	10 100					μА			
Reverse Recovery Time (Note 2)		t _{rr}		3	5		4	.0	5	0	ns
Typical Total Capacitance (Note 3)		Ст			7	'5			5	0	рF
Typical Thermal Resistance Junction to Ambient		$R_{\theta JA}$				4	.0				°C/W
Operating and Storage Temperature Range		T _j , T _{STG}				-65 to	+150				°C

Notes: 1. Valid provided that leads are maintained at ambient temperature at a distance of 9.5mm from the case.

- 2. Measured with I_F = 0.5A, I_R = 1.0A, I_{rr} = 0.25A. See figure 5.
- Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 4. RoHS revision 13.2.2003. High temperature solds. Short duration pulse test used to minimize self-heating effect.

 5. Short duration pulse test used to minimize self-heating effect. RoHS revision 13.2.2003. High temperature solder exemption applied, see EU Directive Annex Notes 5 and 7.



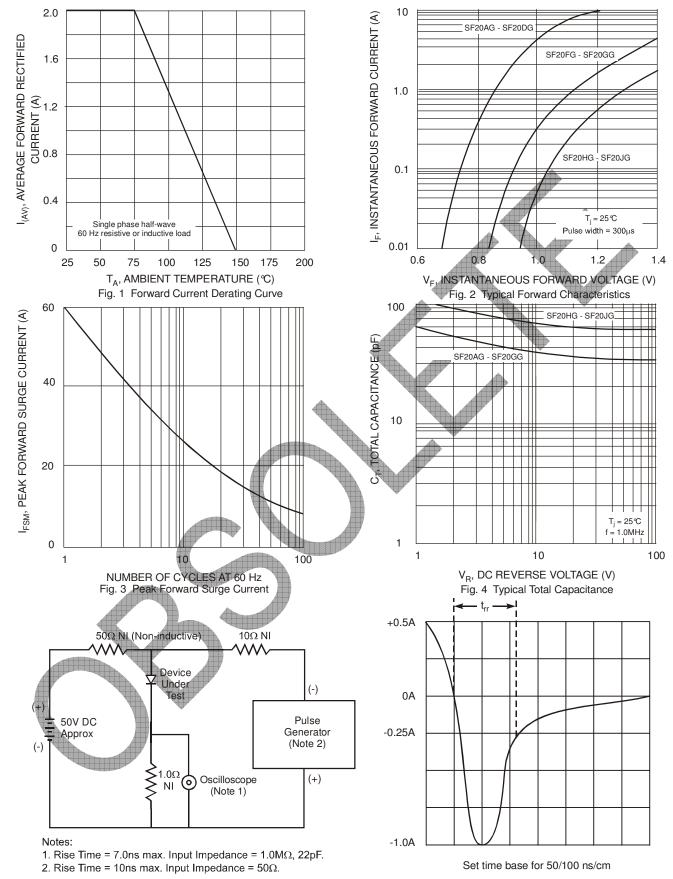


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit



Ordering Information (Note 6)

Device	Packaging	Shipping				
SF20AG-T	DO-15	4K/Tape & Reel, 13-inch				
SF20BG-T	DO-15	4K/Tape & Reel, 13-inch				
SF20CG-T	DO-15	4K/Tape & Reel, 13-inch				
SF20DG-T	DO-15	4K/Tape & Reel, 13-inch				
SF20FG-T	DO-15	4K/Tape & Reel, 13-inch				
SF20GG-T	DO-15	4K/Tape & Reel, 13-inch				
SF20HG-T	DO-15	4K/Tape & Reel, 13-inch				
SF20JG-T	DO-15	4K/Tape & Reel, 13-inch				

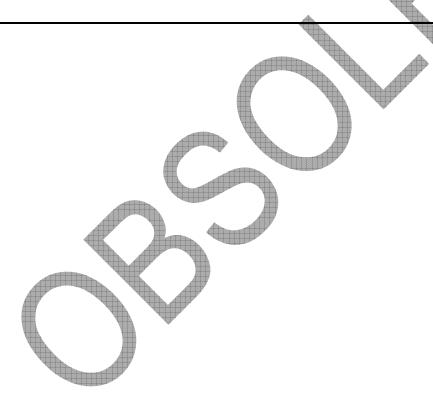
Notes: 6. For packaging details, visit our website at http://www.diodes.com/datasheets/ap02008.pdf.

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