

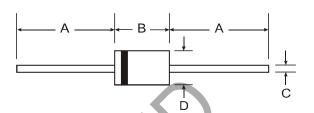
SF10AG - SF10JG

Features

- Glass Passivated Die Construction
- Super-Fast Switching for High Efficiency
- Surge Overload Rating to 30A Peak
- Low Reverse Leakage Current
- Lead Free Finish, RoHS Compliant (Note 4)

Mechanical Data

- Case: DO-41
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Finish Tin. Plated Leads Solderable per MIL-STD-202, Method 208 @3
- Polarity: Cathode Band Marking: Type Number
- Ordering Information: See Page 3
- Weight: 0.3 grams (approximate)



DO-41					
Dim	Min Max				
Α	25.40	_			
В	4.06	5.21			
С	0.71	0.864			
D	2.00	2.72			
All Dimensions in mm					

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

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

Characteristic		Symbol	SF10 AG	SF10 BG	SF10 CG	SF10 DG	SF10 FG	SF10 GG	SF10 HG	SF10 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	V
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	lo	1.0					Α			
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed on Rated Load		I _{FSM}	30					Α			
Forward Voltage	@ I _F = 1.0A	V_{FM}	0.95 1.3		1.5		V				
	@ T _A = 25°C @ T _A = 100°C	I _{RM}	10 100				μА				
Reverse Recovery Time (Note 3)		t _{rr}		3	5		4	0	5	0	ns
Typical Total Capacitance (Note 2)		Ст			7	5			5	0	рF
Thermal Resistance Junction to Ambient		$R_{\theta JA}$				7	5				°C/W
Operating and Storage Temperature Range		T _{j, TSTG}				-65 to	+150				°C

- 1. Valid provided that leads are maintained at ambient temperature at a distance of 9.5mm from the case.
- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{rr} = 0.25A$. See figure 5.
- 4. RoHS revision 13.2.2003. High temperature solder exemption applied, see EU Directive Annex Note 7.
- 5. Short duration pulse test used to minimize self-heating effect.



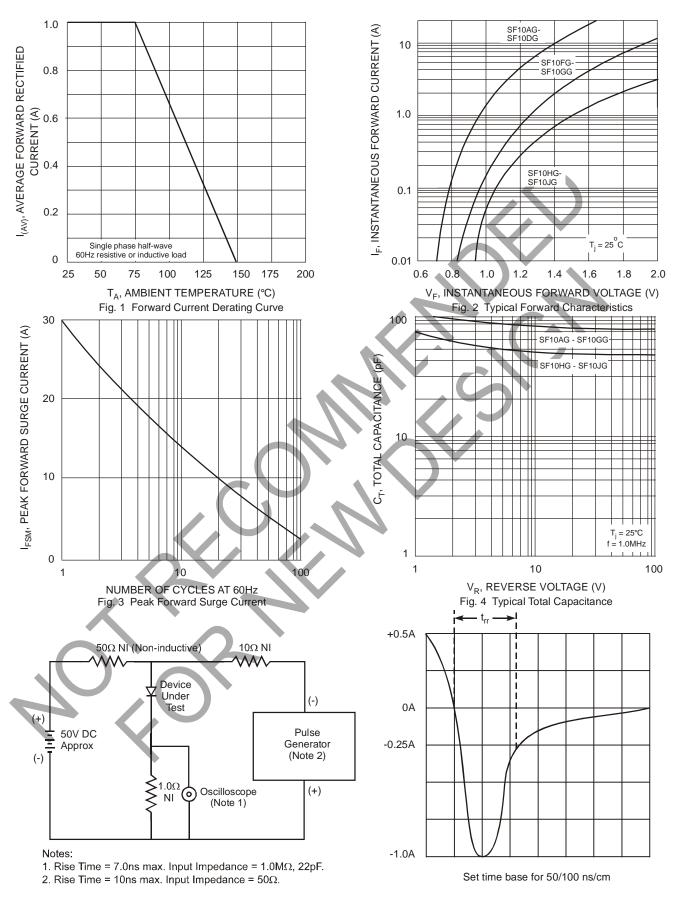


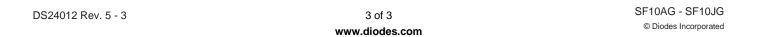
Fig. 5 Reverse Recovery Time Characteristic and Test Circuit



Ordering Information (Note 6)

Device	Packaging	Shipping				
SF10AG-A	DO-41	5K/Ammo Pack				
SF10AG -B	DO-41	1K/Bulk				
SF10AG -T	DO-41	5K/Tape & Reel, 13-inch				
SF10BG -A	DO-41	5K/Ammo Pack				
SF10BG -B	DO-41	1K/Bulk				
SF10BG -T	DO-41	5K/Tape & Reel, 13-inch				
SF10CG -A	DO-41	5K/Ammo Pack				
SF10CG -B	DO-41	1K/Bulk				
SF10CG -T	DO-41	5K/Tape & Reel, 13-inch				
SF10DG -A	DO-41	5K/Ammo Pack				
SF10DG -B	DO-41	1K/Bulk				
SF10DG -T	DO-41	5K/Tape & Reel, 13-inch				
SF10FG -A	DO-41	5K/Ammo Pack				
SF10FG -B	DO-41	1K/Bulk				
SF10FG -T	DO-41	5K/Tape & Reel, 13-inch				
SF10GG -A	DO-41	5K/Ammo Pack				
SF10GG -B	DO-41	1K/Bulk				
SF10GG -T	DO-41	5K/Tape & Reel, 13-inch				
SF10HG -A	DO-41	5K/Ammo Pack				
SF10HG -B	DO-41	1K/Bulk				
SF10HG -T	DO-41	5K/Tape & Reel, 13-inch				
SF10JG -A	DO-41	5K/Ammo Pack				
SF10JG -B	DO-41	1K/Bulk				
SF10JG -T	DO-41	5K/Tape & Reel, 13-inch				

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



NOT RECOMMENDED FOR NEW DESIGN



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DS24012 Rev. 5 - 3 4 of 3 SF10AG - SF10JG
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