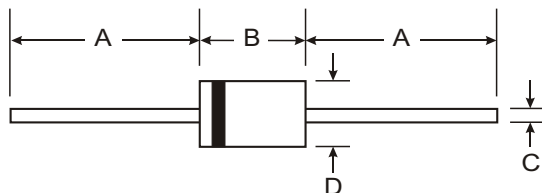


Features

- 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 (e3)
- Polarity: Cathode Band
- Marking: Type Number
- Ordering Information: See Last Page
- Weight: 0.3 grams (approximate)



DO-41		
Dim	Min	Max
A	25.40	
B	4.06	5.21
C	0.71	0.864
D	2.00	2.72
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @ T_A = 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	V
Average Rectified Output Current @ T _A = 75 C (Note 1)	I _O	1.0								A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed on Rated Load	I _{FSM}	30								A
Forward Voltage @ I _F = 1.0A	V _{FM}	0.95				1.3		1.5		V
Peak Reverse Current @ T _A = 25 C at Rated DC Blocking Voltage (Note 5) @ T _A = 100 C	I _{RM}	10 100								A
Reverse Recovery Time (Note 3)	t _{rr}	35				40		50		ns
Typical Total Capacitance (Note 2)	C _T	75						50		pF
Thermal Resistance Junction to Ambient	R _{JA}	75								°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150								C

- Notes:
- Valid provided that leads are maintained at ambient temperature at a distance of 9.5mm from the case.
 - Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
 - Measured with I_F = 0.5A, I_R = 1.0A, I_{rr} = 0.25A. (See Figure 5)
 - RoHS revision13.2.2003. Glass and high temperature solder exemptions applied, see EU Directive Annex Notes 5 and 7.
 - Short duration pulse test used to minimize self-heating effect

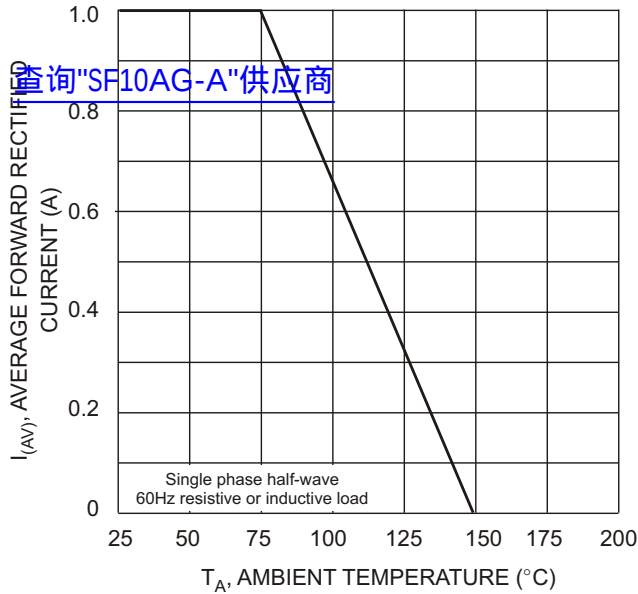


Fig. 1 Forward Current Derating Curve

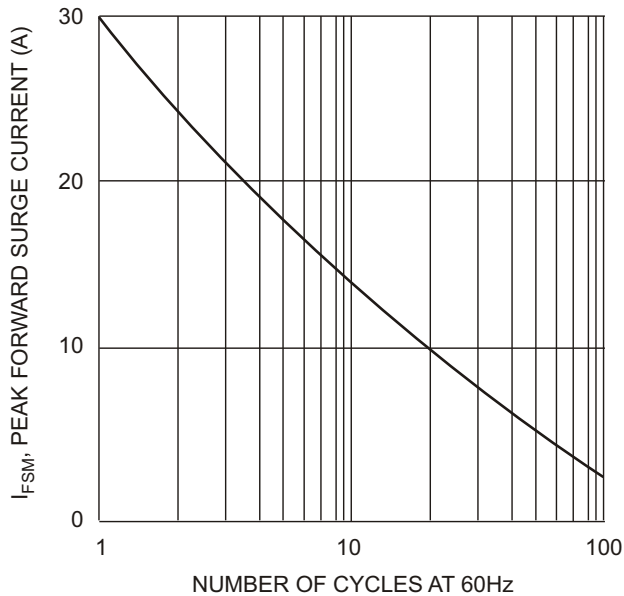


Fig. 3 Peak Forward Surge Current

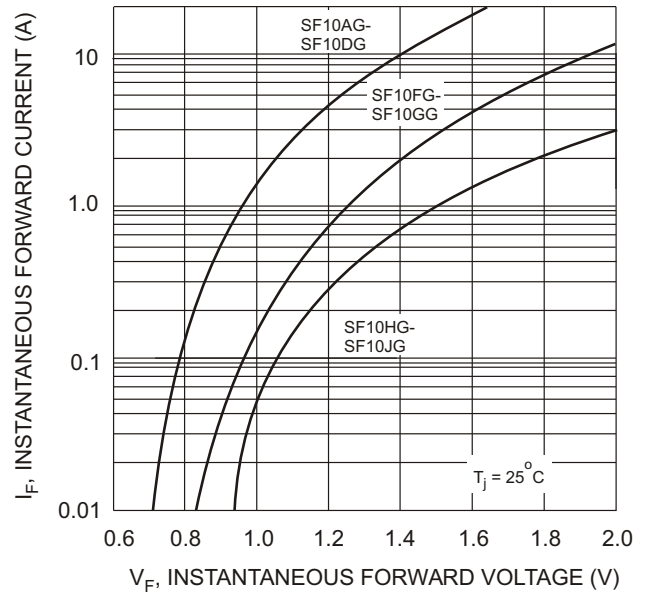


Fig. 2 Typical Forward Characteristics

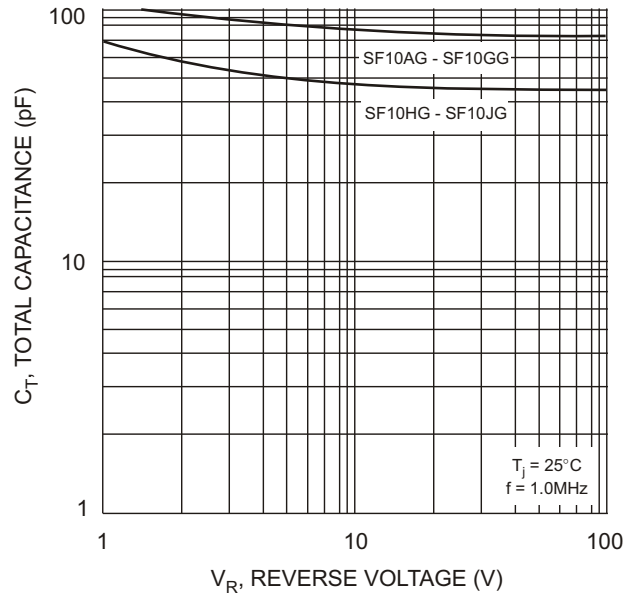
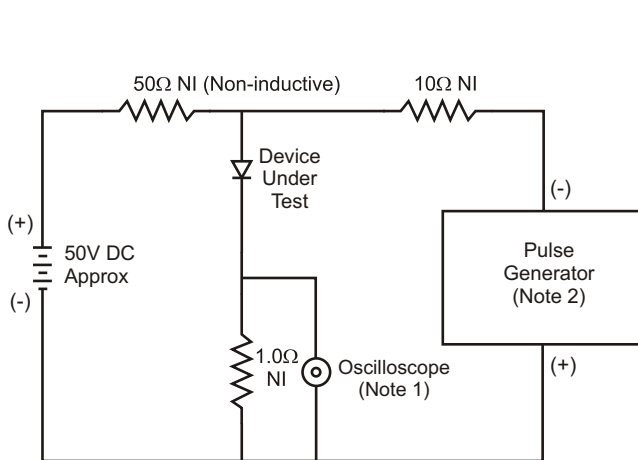


Fig. 4 Typical Total Capacitance



- Notes:
1. Rise Time = 7.0ns max. Input Impedance = 1.0MΩ, 22pF.
 2. Rise Time = 10ns max. Input Impedance = 50Ω.

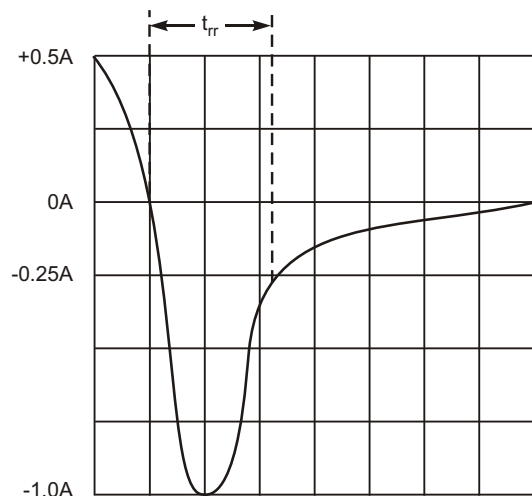


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

Ordering Information (Note 6)

查询"SF10AG-A"供应商	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>.

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