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Diodes Incorporated SF30AG-T

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Datasheet of SF30AG-T - DIODE GEN PURP 50V 3A DO201AD

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NOT RECOMMENDED FOR NEW DESIGN

SF30AG - SF30JG

3.0A SUPER-FAST GLASS PASSIVATED RECTIFIER

Features

- Glass Passivated Die Construction
- Diffused Junction
- Super-Fast Switching for High Efficiency
- Surge Overload Rating to 125A Peak
- Low Reverse Leakage Current
- Lead Free Finish, RoHS Compliant (Note 4)
- .

Mechanical Data

Case: DO-201AD

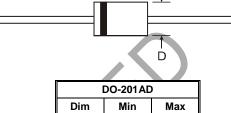
 Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Moisture Sensitivity: Level 1 per J-STD-020C

Method 208 (e3)

Polarity: Cathode BandMarking: Type Number

Ordering Information: See Page 3Weight: 1.12 grams (approximate)



DO-201 AD					
Dim	Min	Max			
Α	25.40	_			
В	7.20	9.50			
С	1.20	1.30			
D	4.80	5.30			
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	SF30 AG	SF30 BG	SF30 CG	SF30 DG	SF30 FG	SF30 GG	SF30 HG	SF30 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	100	140	210	280	350	420	V
Average Rectified Output Current (Note 1)	@ T _A = 55°C	Io	3.0				Α				
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed on R	ated Load	I _{FSM}				12	25				Α
Forward Voltage	$@ I_F = 3.0A$	V _{FM}		0.	95		1.	.3	1.	.5	V
Peak Reverse Current at Rated DC Blocking Voltage (Note 5)	@ T _A = 25°C @ T _A = 100°C	I _{RM}	5.0 100				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	pF
Typical Thermal Resistance Junction to Ambient		$R_{\theta JA}$				3	2		ı		°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 at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3. Measured with IF = 0.5A, IR = 1.0A, Irr = 0.25A. See figure 5.
- RoHS revision 13.2.2003. High temperature solder exemption applied, see *EU Directive Annex Notes 5 and 7*.
- 5. Short duration pulse test used to minimize self-heating effect.

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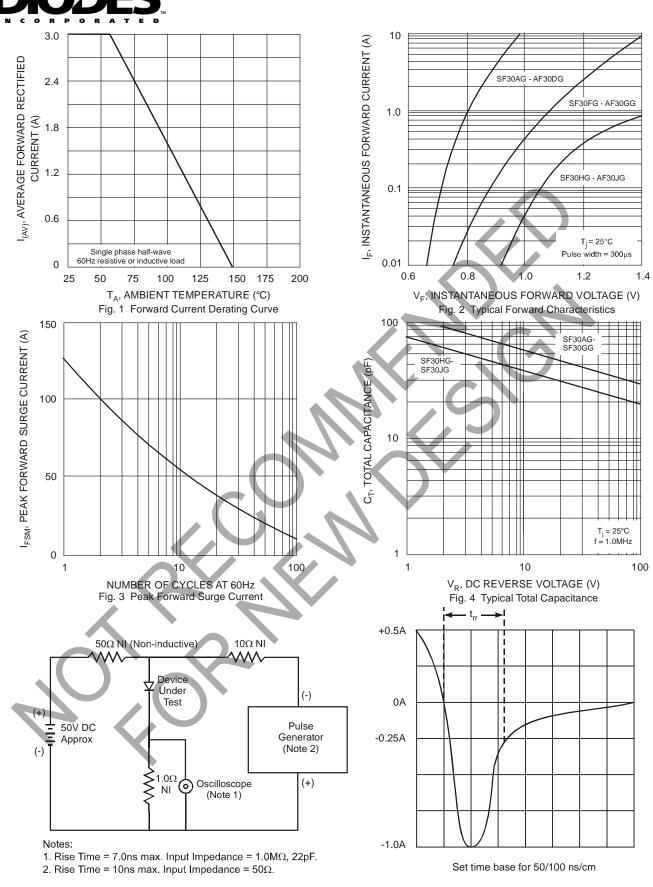


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit



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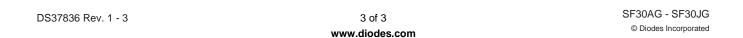


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Ordering Information (Note 6)

Device	Packaging	Shipping
SF30AG-B	DO-201AD	500/Bulk
SF30AG-T	DO-201AD	1.2K/Tape & Reel, 13-inch
SF30BG-B	DO-201AD	500/Bulk
SF30BG-T	DO-201AD	1.2K/Tape & Reel, 13-inch
SF30CG-B	DO-201AD	500/Bulk
SF30CG-T	DO-201AD	1.2K/Tape & Reel, 13-inch
SF30DG-B	DO-201AD	500/Bulk
SF30DG-T	DO-201AD	1.2K/Tape & Reel, 13-inch
SF30FG-B	DO-201AD	500/Bulk
SF30FG-T	DO-201AD	1.2K/Tape & Reel, 13-inch
SF30GG-B	DO-201AD	500/Bulk
SF30GG-T	DO-201AD	1.2K/Tape & Reel, 13-inch
SF30HG-B	DO-201AD	500/Bulk
SF30HG-T	DO-201AD	1.2K/Tape & Reel, 13-inch
SF30JG-B	DO-201AD	500/Bulk
SF30JG-T	DO-201AD	1.2K/Tape & Reel, 13-inch

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





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