



5.0A SUPERFAST DIODE



Features

- Diffused Junction
- Low Forward Voltage Drop
- High Surge Current Capability
- High Reliability
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

Mechanical Data

Case: DO-201AD, Molded Plastic

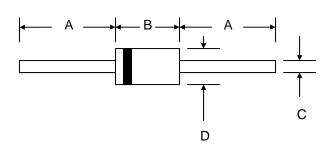
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Cathode Band
 Weight 4.2 areas (against

• Weight: 1.2 grams (approx.)

Mounting Position: AnyMarking: Type Number

Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4



DO-201AD				
Dim	Min	Max		
Α	25.4	_		
В	7.20	9.50		
C	1.20	1.30		
D	4.80	5.30		
All Dimensions in mm				

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

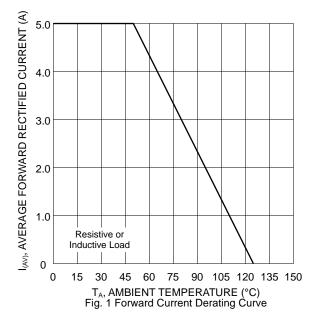
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

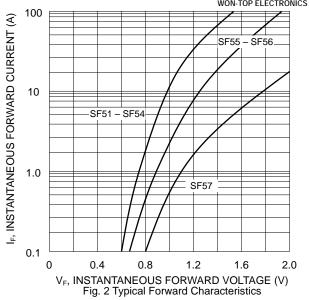
Characteristic	Symbol	SF51	SF52	SF53	SF54	SF55	SF56	SF57	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	150	200	300	400	600	V
RMS Reverse Voltage	VR(RMS)	35	70	105	140	210	280	420	V
Average Rectified Output Current (Note 1) @T _A = 50°C	lo	5.0					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	-Wave Superimposed on IFSм		150						А
Forward Voltage $@I_F = 5.0A$	VFM	0.95		1	.3	1.7	V		
	lгм				5.0 100				μΑ
Reverse Recovery Time (Note 2)	t _{rr}				35				nS
Typical Junction Capacitance (Note 3)	Сл	100			75			pF	
Typical Thermal Resistance Junction to Ambient (Note 1) Typical Thermal Resistance Junction to Lead (Note 1)	R JA R JL	20 5.0					°C/W		
Operating Temperature Range	TJ	-65 to +125					°C		
Storage Temperature Range	Тѕтс	-65 to +150					°C		

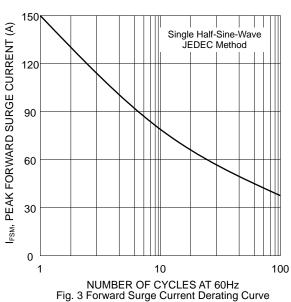
Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

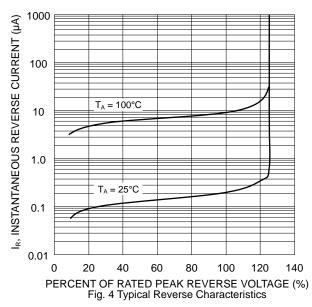
- 2. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$.
- 3. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V D.C.











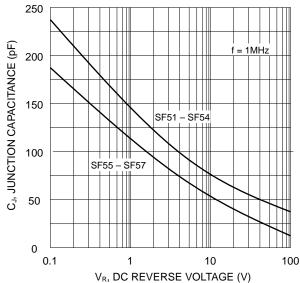
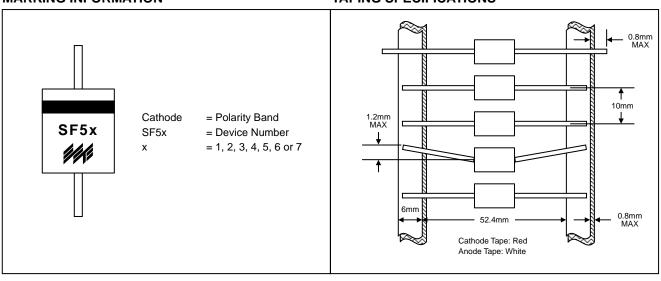


Fig. 5 Typical Junction Capacitance

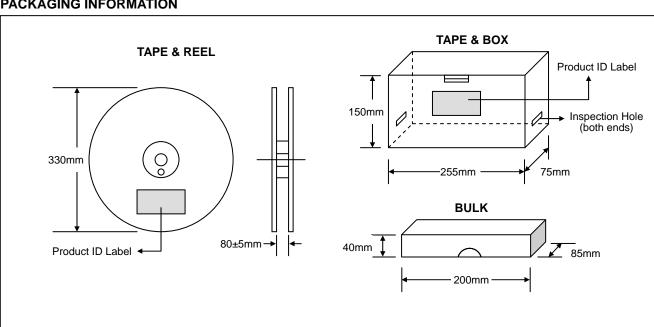


MARKING INFORMATION

TAPING SPECIFICATIONS



PACKAGING INFORMATION



Packaging	Reel Diameter / Box Size (mm)	Quantity (PCS)	Carton Size (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
TAPE & REEL	330	1,200	370 x 370 x 420	6,000	10.0
TAPE & BOX	255 x 75 x 150	1,200	400 x 273 x 415	12,000	17.0
BULK	200 x 85 x 40	500	459 x 214 x 256	12,500	16.0

Note: 1. Paper reel, white or gray color. Core material: plastic or metal.
2. Components are packed in accordance with EIA standard RS-296-E.



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
SF5x-T3	DO-201AD	1200/Tape & Reel
SF5x-TB	DO-201AD	1200/Tape & Box
SF5x	DO-201AD	500 Units/Box

- 1. Products listed in **bold** are WTE **Preferred** devices.
- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, SF51-TB-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

Won-Top Electronics Co., Ltd. No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung 806, Taiwan Phone: 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

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