

1.0A SUPERFAST DIODE

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

Mechanical Data

Case: DO-41, Molded Plastic

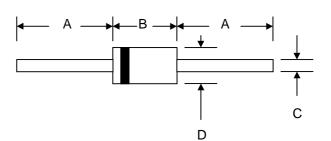
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Cathode Band

Weight: 0.34 grams (approx.)

Mounting Position: AnyMarking: Type Number

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



DO-41				
Dim	Min	Max		
Α	25.4	_		
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	SF11	SF12	SF13	SF14	SF15	SF16	SF17	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 = 55°C	Ю	1.0					Α		
Non-Repetitive Peak Forward Surg Single half sine-wave superimpose (JEDEC Method)	•	İFSM	30				А			
Forward Voltage	@I _F = 1.0A	VFM	0.95 1.3 1.7			1.7	V			
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 100°C	IRM	5.0 100				μΑ			
Reverse Recovery Time (Note 2)		trr				35				nS
Typical Junction Capacitance (Not	e 3)	Cj		5	50			30		pF
Operating Temperature Range		Tj			-(65 to +12	25			°C
Storage Temperature Range		Тѕтс			-(65 to +15	50			°C

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

- 2. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 5.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

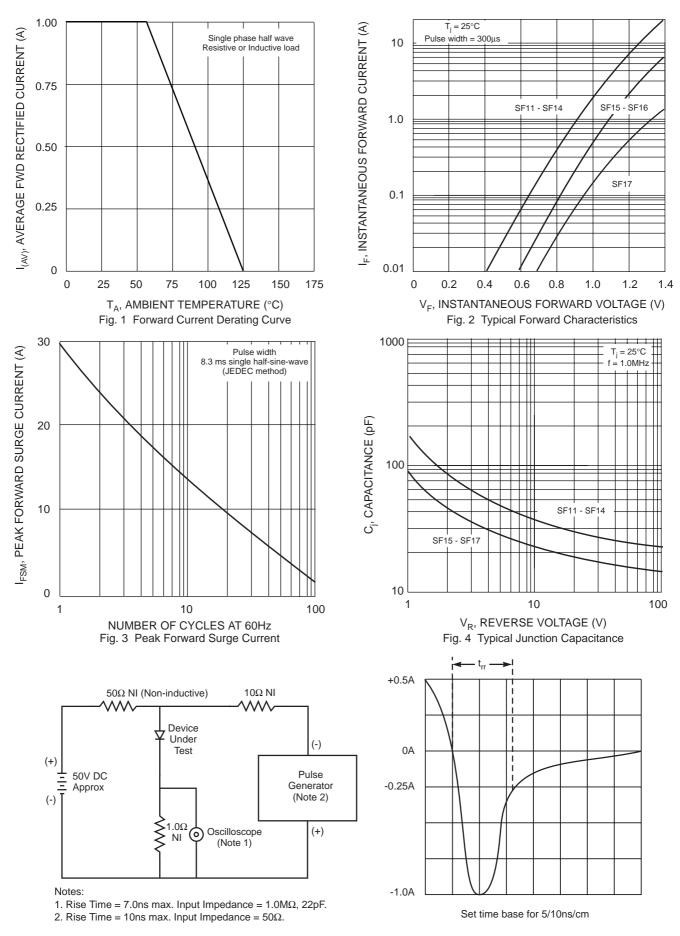
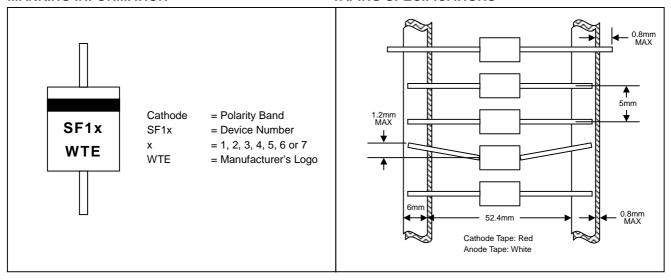
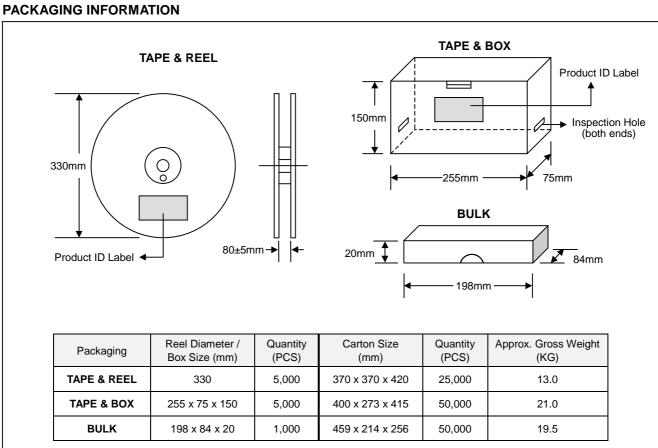


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

MARKING INFORMATION

TAPING SPECIFICATIONS





Note: 1. Paper reel, white or gray color. Core material: plastic or metal.

2. Components are packed in accordance with $\dot{\text{EIA}}$ standard RS-296-E.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity				
SF11-T3	DO-41	5000/Tape & Reel				
SF11-TB	DO-41	5000/Tape & Box				
SF11	DO-41	1000 Units/Box				
SF12-T3	DO-41	5000/Tape & Reel				
SF12-TB	DO-41	5000/Tape & Box				
SF12	DO-41	1000 Units/Box				
SF13-T3	DO-41	5000/Tape & Reel				
SF13-TB	DO-41	5000/Tape & Box				
SF13	DO-41	1000 Units/Box				
SF14-T3	DO-41	5000/Tape & Reel				
SF14-TB	DO-41	5000/Tape & Box				
SF14	DO-41	1000 Units/Box				
SF15-T3	DO-41	5000/Tape & Reel				
SF15-TB	DO-41	5000/Tape & Box				
SF15	DO-41	1000 Units/Box				
SF16-T3	DO-41	5000/Tape & Reel				
SF16-TB	DO-41	5000/Tape & Box				
SF16	DO-41	1000 Units/Box				
SF17-T3	DO-41	5000/Tape & Reel				
SF17-TB	DO-41	5000/Tape & Box				
SF17	DO-41	1000 Units/Box				

- 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, SF11-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.

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