

2.0A SUPERFAST DIODE

Features

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

A B A C C C

DO-15 Dim Min Max Α 25.4 В 5.50 7.62 С 0.71 0.864 D 2.60 3.60 All Dimensions in mm

Mechanical Data

Case: DO-15, Molded Plastic

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

Polarity: Cathode Band

Weight: 0.40 grams (approx.)

Mounting Position: AnyMarking: Type Number

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

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	SF21	SF22	SF23	SF24	SF25	SF26	SF27	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	lo				2.0				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	50					А		
Forward Voltage	@I _F = 2.0A	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 (Note 3)		Cj	60 30				pF			
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 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.

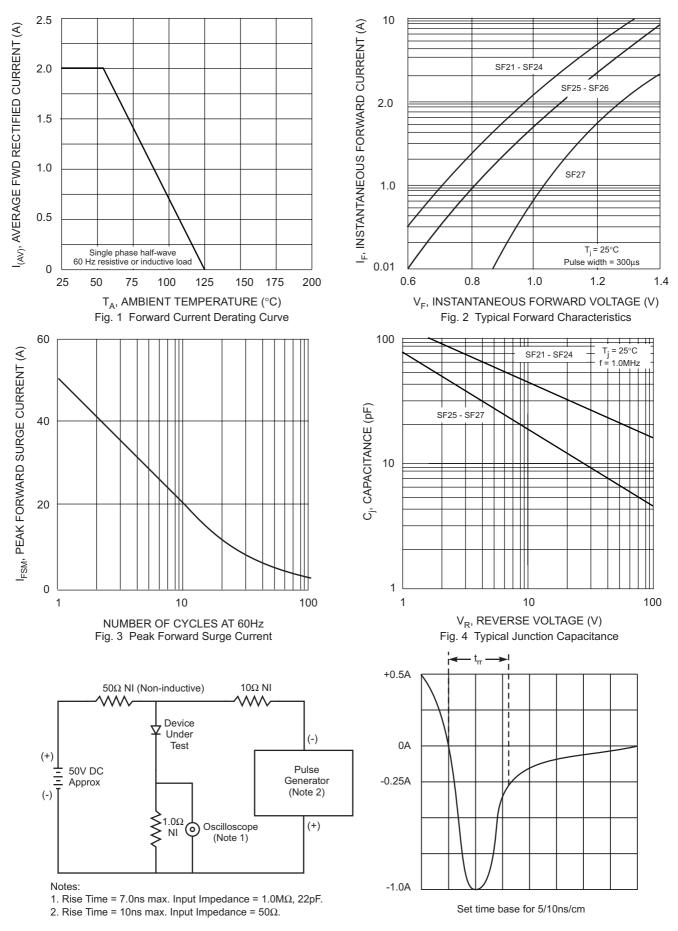
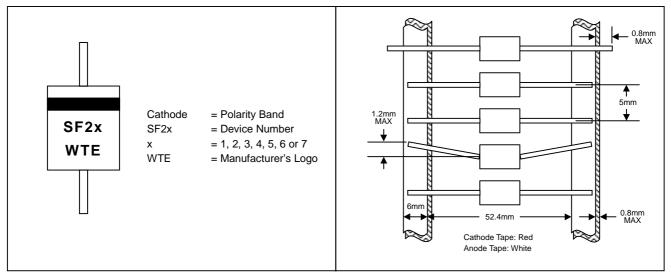


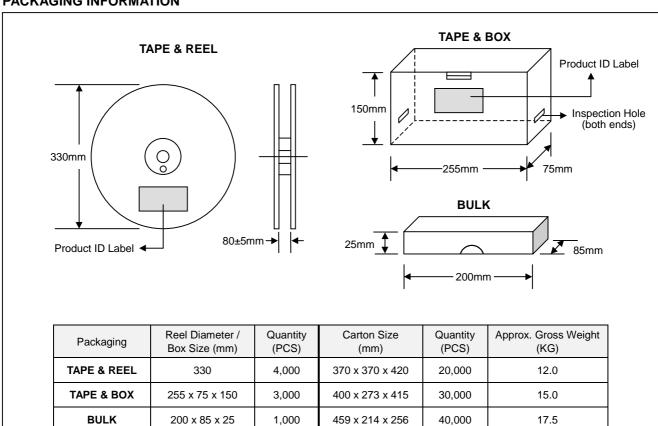
Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

MARKING INFORMATION

TAPING SPECIFICATIONS



PACKAGING INFORMATION



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			
SF21-T3	DO-15	4000/Tape & Reel			
SF21-TB	DO-15	3000/Tape & Box			
SF21	DO-15	1000 Units/Box			
SF22-T3	DO-15	4000/Tape & Reel			
SF22-TB	DO-15	3000/Tape & Box			
SF22	DO-15	1000 Units/Box			
SF23-T3	DO-15	4000/Tape & Reel			
SF23-TB	DO-15	3000/Tape & Box			
SF23	DO-15	1000 Units/Box			
SF24-T3	DO-15	4000/Tape & Reel			
SF24-TB	DO-15	3000/Tape & Box			
SF24	DO-15	1000 Units/Box			
SF25-T3	DO-15	4000/Tape & Reel			
SF25-TB	DO-15	3000/Tape & Box			
SF25	DO-15	1000 Units/Box			
SF26-T3	DO-15	4000/Tape & Reel			
SF26-TB	DO-15	3000/Tape & Box			
SF26	DO-15	1000 Units/Box			
SF27-T3	DO-15	4000/Tape & Reel			
SF27-TB	DO-15	3000/Tape & Box			
SF27	DO-15	1000 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, SF21-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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