

1.0A 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-41, Molded Plastic

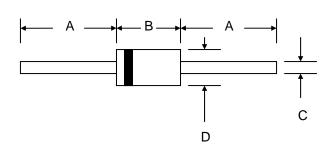
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Cathode Band
 Weight: 0.35 grams (app

Weight: 0.35 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

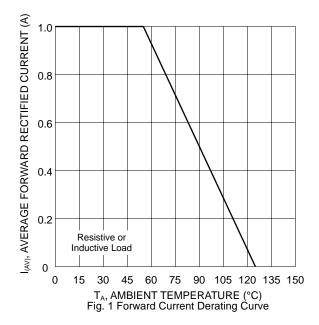
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

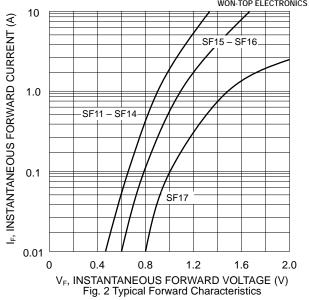
Characteristic	Symbol	SF11	SF12	SF13	SF14	SF15	SF16	SF17	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	150	200	300	400	600	٧
RMS Reverse Voltage	VR(RMS)	35	70	105	140	210	280	420	V
Average Rectified Output Current (Note 1) @T _A = 55°C	lo				1.0				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM				30				А
Forward Voltage @I _F = 1.0A	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)	Cl	30 15				pF			
Typical Thermal Resistance Junction to Ambient (Note 1) Typical Thermal Resistance Junction to Lead (Note 1)	R JA R JL	60 15				°C/W			
Operating Temperature Range	TJ	-65 to +125					°C		
Storage Temperature Range	Тѕтс	-65 to +150					°C		

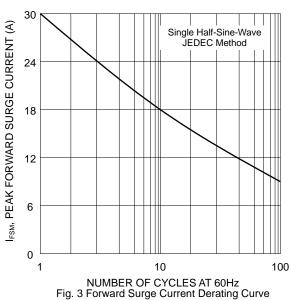
Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

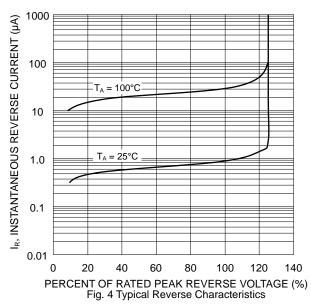
- 2. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$.
- 3. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V D.C.











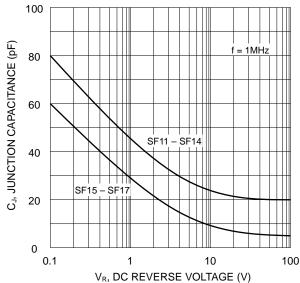
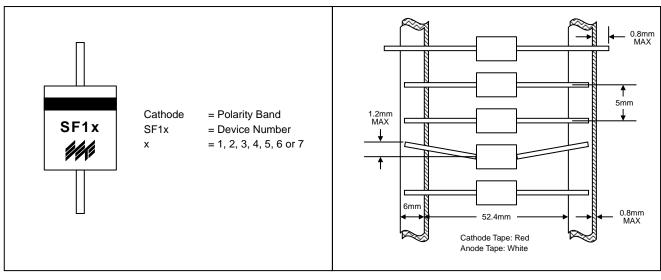


Fig. 5 Typical Junction Capacitance

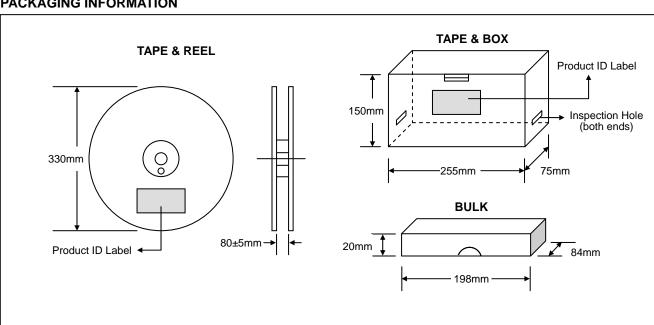


MARKING INFORMATION

TAPING SPECIFICATIONS



PACKAGING INFORMATION



Packaging	Reel Diameter / Box Size (mm)	Quantity (PCS)	Carton Size (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
TAPE & REEL	330	5,000	370 x 370 x 420	25,000	13.0
TAPE & BOX	255 x 75 x 150	5,000	400 x 273 x 415	50,000	21.0
BULK	198 x 84 x 20	1,000	459 x 214 x 256	50,000	19.5

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
SF1x-T3	DO-41	5000/Tape & Reel
SF1x-TB	DO-41	5000/Tape & Box
SF1x	DO-41	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, 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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