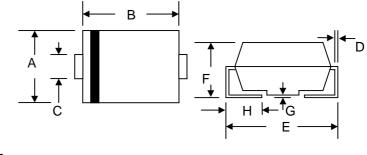




1.0A LOW VF SURFACE MOUNT GLASS PASSIVATED SUPERFAST DIODE

Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop, High Efficiency
- Surge Overload Rating to 30A Peak
- Low Power Loss
- Super-Fast Recovery Time
- Plastic Case Material has UL Flammability Classification Rating 94V-O



Mechanical Data

- Case: SMA/DO-214AC, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4

SMA/DO-214AC				
Dim	Min	Max		
Α	2.50	2.90		
в	4.00	4.60		
С	1.20	1.60		
D	0.152	0.305		
ш	4.80	5.28		
F	2.00	2.44		
G	0.051	0.203		
Н	0.76	1.52		
All Dimensions in mm				

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

Characteristic		Symbol	EFS1J	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	600	v
RMS Reverse Voltage		VR(RMS)	420	V
Average Rectified Output Current	@T _L = 75°C	lo	1.0	А
Non-Repetitive Peak Forward Surge C 8.3ms Single half sine-wave superimp rated load (JEDEC Method)		IFSM	30	A
Forward Voltage	@I _F = 1.0A	Vгм	1.25	V
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 100°C	IRM	5.0 100	μA
Reverse Recovery Time (Note 1)		trr	50	nS
Typical Junction Capacitance (Note 2)		Cj	8	pF
Typical Thermal Resistance (Note 3)		R∂JL	35	°C/W
Operating and Storage Temperature Range		Тj, Tsтg	-65 to +150	°C

Note: 1. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{rr} = 0.25A$. See figure 5.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.

3. Mounted on P.C. Board with 8.0mm² land area.

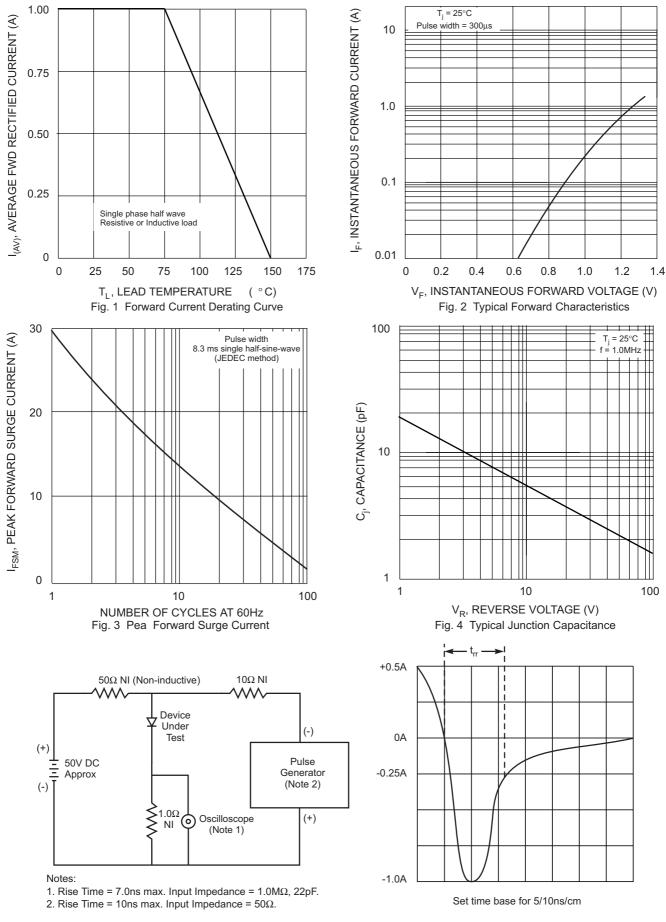
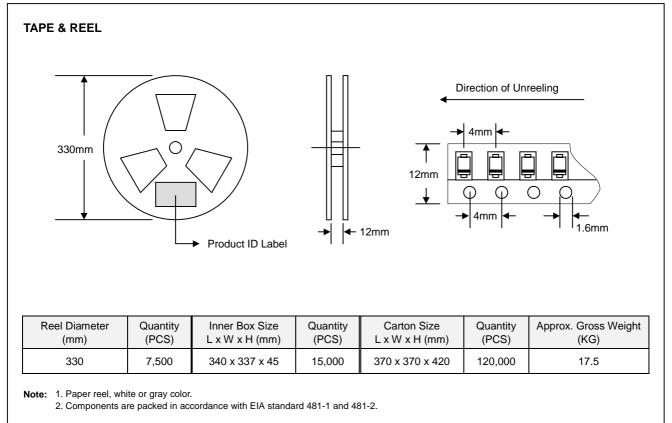


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

MARKING INFORMATION **RECOMMENDED FOOTPRINT** 0.050 MIN WTE (1.27 MIN) EFS1 0.058 MIN (1.47 MIN) ₽ Cathode = Polarity Band ◆ 0.083 MAX (2.11 MAX) WTE = Manufacturer's Logo EFS1J = Device Number inches(mm)

PACKAGING INFORMATION



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
EFS1J-T3	SMA	7500/Tape & Reel

Shipping quantity given is for minimum packing quantity only. For minimum 1.

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, EFS1J-T3-LF. 2.

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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, 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

We power your everyday.