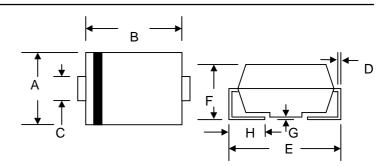


3.0A SURFACE MOUNT FAST RECOVERY RECTIFIER

Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop, High Efficiency
- Surge Overload Rating to 100A Peak
- Low Power Loss
- Fast Recovery Time
- Plastic Case Material has UL Flammability Classification Rating 94V-O



Mechanical Data

- Case: Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.21 grams (approx.)

SMC/DO-214AB					
Dim	Min	Max			
Α	5.59	6.22			
В	6.60 7.11				
С	2.75	3.25			
D	0.152	0.305			
Е	7.75	8.13			
F	2.00	2.62			
G	0.051	0.203			
Н	0.76	1.27			
All Dimensions in mm					

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

Characteristic		Symbol	FR3A	FR3B	FR3D	FR3G	FR3J	FR3K	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	50	100	200	400	600	800	V
RMS Reverse Voltage		VR(RMS)	35	70	140	280	420	560	٧
Average Rectified Output Current	@T _L = 75°C	lo	3.0			Α			
Non-Repetitive Peak Forward Surg 8.3ms Single half sine-wave superi rated load (JEDEC Method)		IFSM	100		А				
Forward Voltage	@I _F = 3.0A	VFM	1.30			V			
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 125°C	IRM	10 350			μA			
Reverse Recovery Time (Note 1)		trr		1:	50		250	500	nS
Typical Junction Capacitance (Note	2)	Cj			6	0			pF
Typical Thermal Resistance (Note:	3)	R_{θ} JL			1	5			K/W
Operating and Storage Temperatur	e Range	Тj, Tsтg			-50 to	+150			°C

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

- 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.

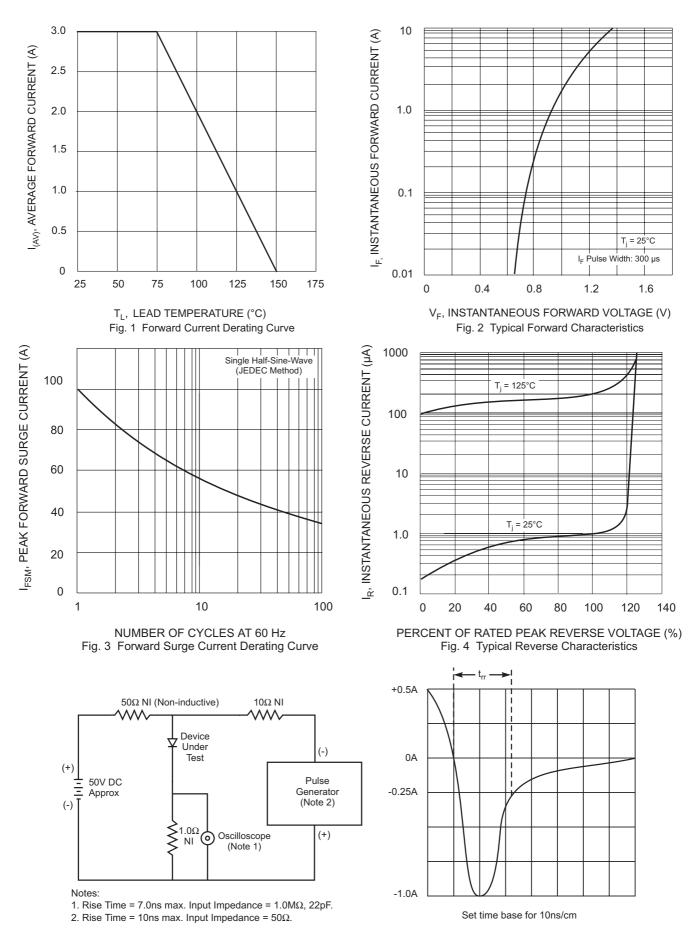


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

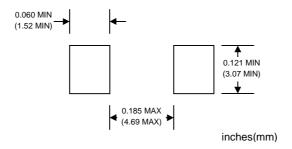
ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity			
FR3A-T1	SMC	500/Tape & Reel			
FR3A-T3	SMC	3000/Tape & Reel			
FR3B-T1	SMC	500/Tape & Reel			
FR3B-T3	SMC	3000/Tape & Reel			
FR3D-T1	SMC	500/Tape & Reel			
FR3D-T3	SMC	3000/Tape & Reel			
FR3G-T1	SMC	500/Tape & Reel			
FR3G-T3	SMC	3000/Tape & Reel			
FR3J-T1	SMC	500/Tape & Reel			
FR3J-T3	SMC	3000/Tape & Reel			
FR3K-T1	SMC	500/Tape & Reel			
FR3K-T3	SMC	3000/Tape & Reel			

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.

RECOMMENDED FOOTPRINT



Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

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.

^{*}T1 suffix refers to a 7" reel. T3 suffix refers to a 13" reel.