



UF3A~UF3M

SURFACE MOUNT ULTRAFAST RECTIFIER

50 to 1000 Volt CURRENT VOLTAGE

3 Ampere

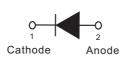
FEATURES

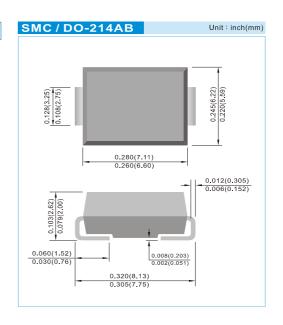
- · For surface mounted applications in order to optimize board space
- · Easy pick and place
- · Ultrafast recovery times for high efficiency
- · Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · Glass passivated junction
- · Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- · Case: JEDEC DO-214AB molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes cathode end
- Standard packaging: 16mm tape (EIA-481)
- Weight: 0.0082 ounces, 0.2325 grams







MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

PARAMETER		UF3A	UF3B	UF3D	UF3G	UF3J	UF3K	UF3M	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltage		35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		50	100	200	400	600	800	1000	V
Maximum Average Forward Current	I _{F(AV)}	3							Α
Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	100						А	
Maximum Forward Voltage at 3A	V _F	1 1.3			1.7			V	
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J = 25^{\circ}C$ $T_J = 125^{\circ}C$	I _R	1 300					μΑ		
Typical Junction Capacitance (Note 2)	C	75 63				pF			
Typical Thermal Resistance (Note 3)	$R_{_{\theta JL}}$	15					°C / W		
Maximum Reverse Recovery Time (Note 1)	t _{rr}	50			100		ns		
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +150				°C			

NOTES:1. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1A, I_{rr}=0.25A

- 2. Measured at 1 MHz and applied $V_r = 4$ volts.
- 3. 8 mm² (0.013mm thick) land areas.

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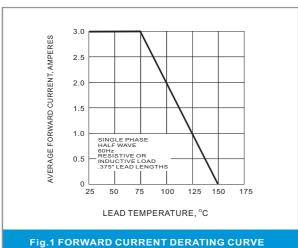


Part Number: UF3A SERIES



CONDUCTOR

RATING AND CHARACTERISTIC CURVES



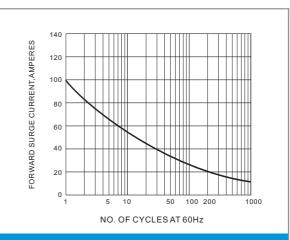


Fig.6 PEAK FORWARD SURGE CURRENT

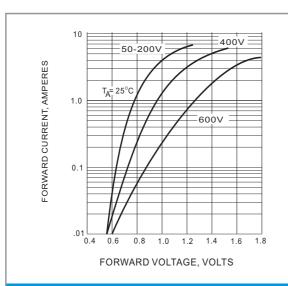


Fig.3 FORWARD CHARACTERISTICS

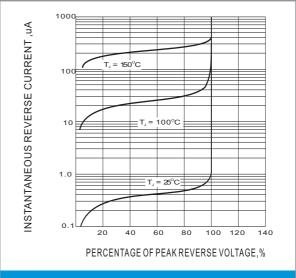
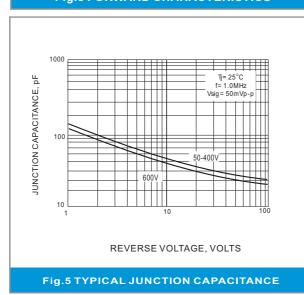


Fig.4 TYPICAL REVERSE CHARACTERISTICS



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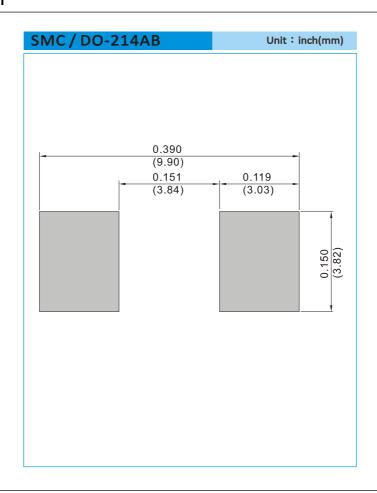
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MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel

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Part No._packing code_Version

UF3A_R1_00001 UF3A_R2_00001

For example:



Packing Code XX				Version Code XXXXX				
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code		
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number		
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number		
Bulk Packing (B/P)	В	13"	2					
Tube Packing (T/P)	Т	26mm	X					
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y					
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					

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Part Number: UF3A SERIES

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