



SURFACE MOUNT ULTRAFAST RECTIFIER

VOLTAGE 50 to 1000 Volt CURRENT 3 Ampere

FEATURES

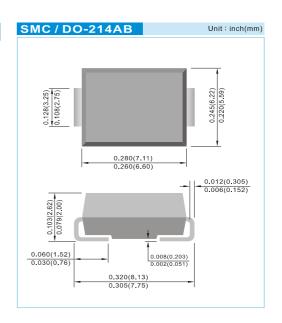
- For surface mounted applications in order to optimize board space
- · Easy pick and place
- Ultrafast recovery times for high efficiency
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · Glass passivated junction
- Lead free in compliance with EU RoHS 2.0
- Green molding 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	SYMBOL	UF3A	UF3B	UF3D	UF3G	UF3J	UF3K	UF3M	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current	I _{F(AV)}	3					А		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	100					Α		
Maximum Forward Voltage at 3A	V _F	1 1.3			1.7			٧	
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_{\rm J}=25^{\rm o}C$ $T_{\rm J}=125^{\rm o}C$	I _R	1 300					μА		
Typical Junction Capacitance (Note 2)	C _J	75 63					pF		
Typical Thermal Resistance (Note 3)	R _{eJL}	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			

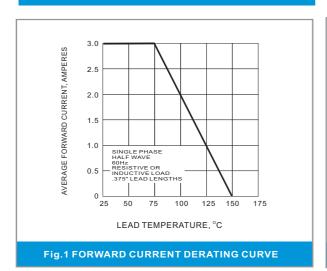
NOTES:1. Reverse Recovery Test Conditions: I_F =0.5A, I_R =1A, I_{rr} =0.25A

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



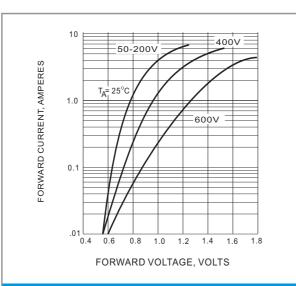


RATING AND CHARACTERISTIC CURVES



NO. OF CYCLES AT 60Hz

Fig.6 PEAK FORWARD SURGE CURRENT



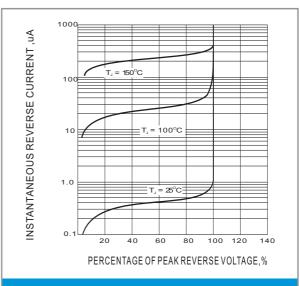
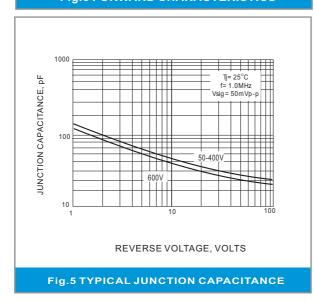


Fig.3 FORWARD CHARACTERISTICS

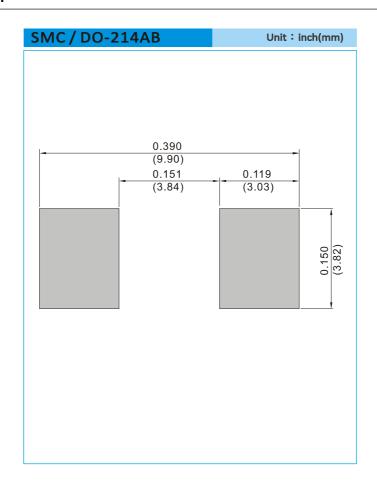
Fig.4 TYPICAL REVERSE CHARACTERISTICS







MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel

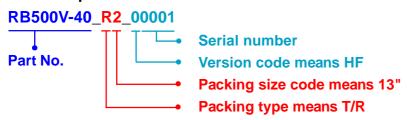




Part No_packing code_Version

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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