



SURFACE MOUNT ULTRAFAST RECTIFIER

VOLTAGE 50 to 1000 Volt CURRENT 3 Ampere

FEATURES

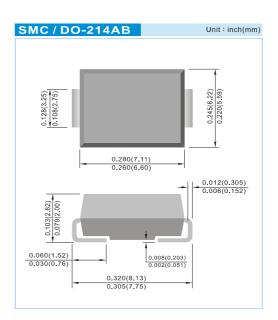
- For surface mounted applications in order to optimize board space
- · Easy pick and place
- Ultrafast recovery times for high efficiency
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · Glass passivated junction
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

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 ounce, 0.2325 gram







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		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					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 $T_{\rm J}=25^{\rm o}C$ $T_{\rm J}=125^{\rm o}C$	I _R	1 300					μΑ		
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)		50			100		ns		
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +150				°C			

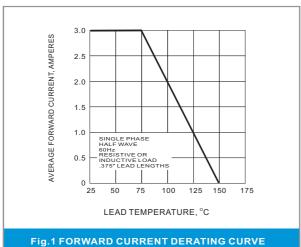
NOTES:1. Reverse Recovery Test Conditions: I $_{F}$ =0.5A, I $_{R}$ =1A, I $_{rr}$ =0.25A

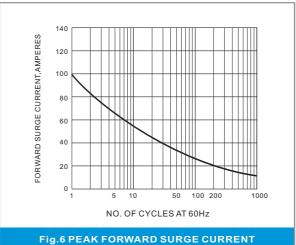
- 2. Measured at 1 MHz and applied $V_r = 4$ volts.
- 3. 8 mm^2 (0.013 mm thick) land areas.

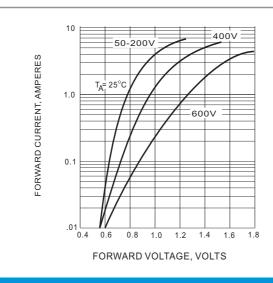




RATING AND CHARACTERISTIC CURVES







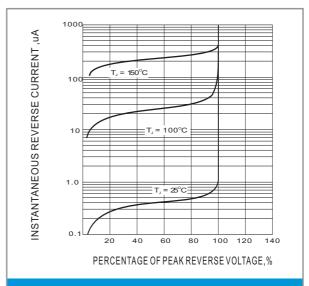
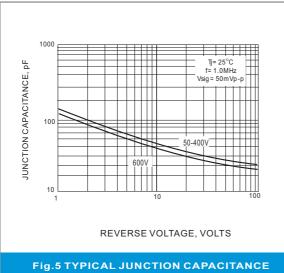


Fig.3 FORWARD CHARACTERISTICS

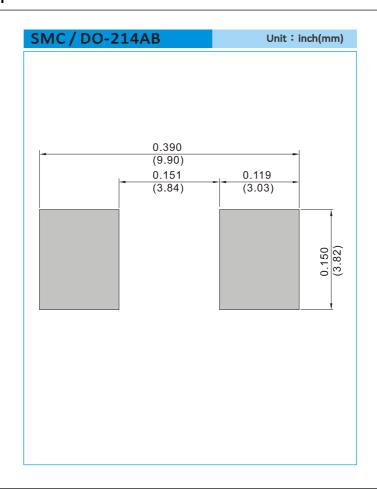








MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.5K per 7" plastic Reel

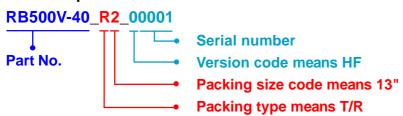




Part No_packing code_Version

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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