



SURFACE MOUNT ULTRAFAST RECTIFIER

VOLTAGE 50 to 1000 Volt CURRENT 1 Ampere

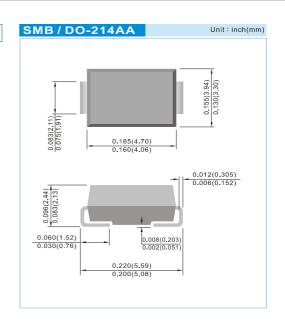
FEATURES

- 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 Calssification 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-214AA molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes cathode end
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.0032 ounces, 0.092 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	UF1A	UF1B	UF1D	UF1G	UF1J	UF1K	UF1M	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	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 at T _L =100°C	I _{F(AV)}	1					А		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30							А
Maximum Forward Voltage at 1A	V _F	1 1.4 1.7				V			
Maximum DC Reverse Current at Rated DC Blocking $T_{\rm J}$ =25°C Voltage $T_{\rm J}$ =125°C	I _R				1 150				μА
Typical Junction Capacitance (Note 2)	C ,	17				pF			
Typical Thermal Resistance (Note 3)	R _{eJL}	30					°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

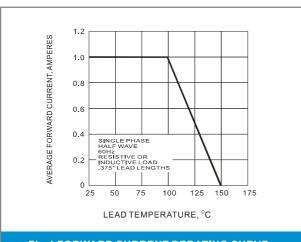


Fig.1 FORWARD CURRENT DERATING CURVE

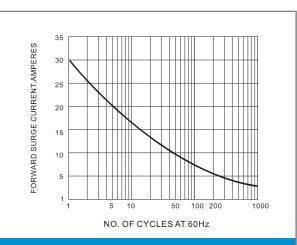


Fig.2 PEAK FORWARD SURGE CURRENT

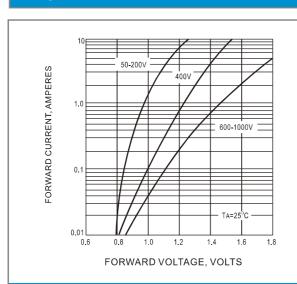


Fig.3 FORWARD CHARACTERISTICS

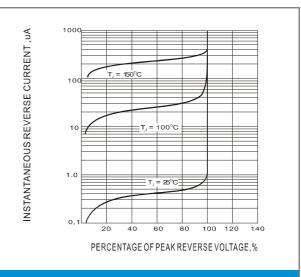


Fig.4-TYPICAL REVERSE CHARACTERISTIC

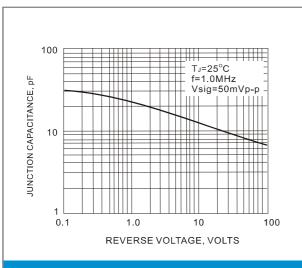
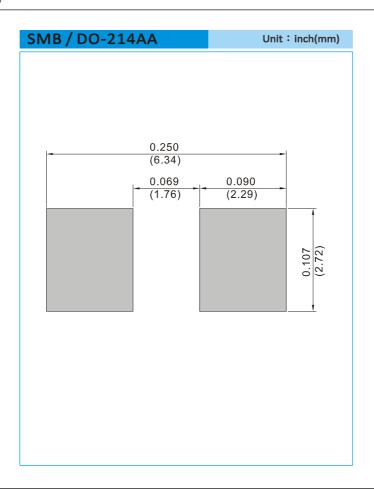


Fig.5 TYPICAL JUNCTION CAPACITANCE





MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel

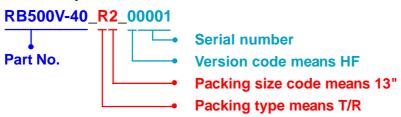




Part No_packing code_Version

UF1A_R1_00001 UF1A_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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