



SURFACE MOUNT ULTRAFAST RECTIFIER

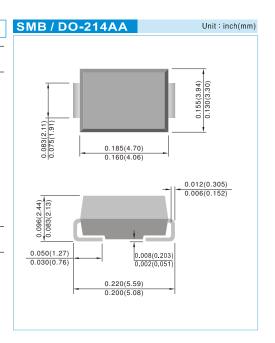
VOLTAGE 50 to 600 Volts CURRENT 2 Amperes

FEATURES

- · For surface mounted applications
- · Low profile package
- · Built-in strain relief
- 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 comply with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: JEDEC DO-214AA molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: Indicated by cathode band
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.0032 ounce, 0.092 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	UF2A	UF2B	UF2D	UF2G	UF2J	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	٧
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	V
Maximum Average Forward Current at T _L =90°C	I _{F(AV)}	2					Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	50					Α
Maximum Forward Voltage at 2A	V _F	1 1.3			1.7	٧	
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_{_{J}}^{_{J}=25^{\circ}C}$ $T_{_{J}}^{_{J}=125^{\circ}C}$	I _R	1 200					μА
Typical Junction Capacitance (Note 2)	C	28				pF	
Typical Thermal Resistance (Note 3)	$R_{_{\theta JL}}$	20			°C / W		
Maximum Reverse Recovery Time (Note 1)	t _{rr}		5	0		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=1.0A, I_{rr}=0.25A

- 2. Measured at 1 MHz and applied $V_r = 4.0$ volts.
- 3. 8.0 mm^2 (.013mm thick) land areas.





RATING AND CHARACTERISTIC CURVES

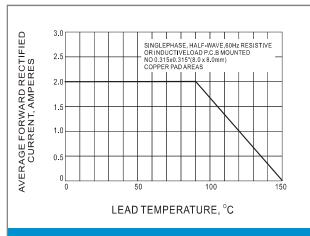


Fig.1 FORWARD CURRENT DERATING CURVE

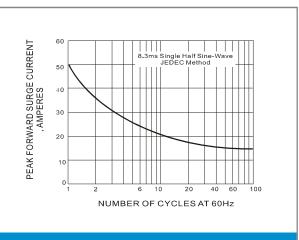


Fig.2 PEAK FORWARD SURGE CURRENT

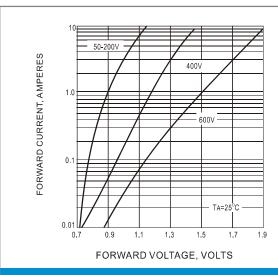


Fig.3 FORWARD CHARACTERISTICS

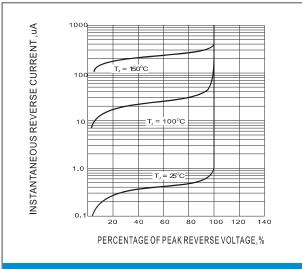


Fig.4-TYPICAL REVERSE CHARACTERISTIC

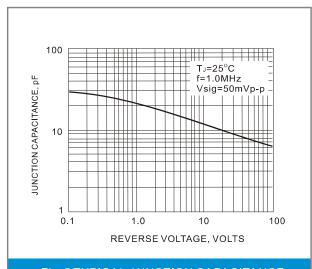
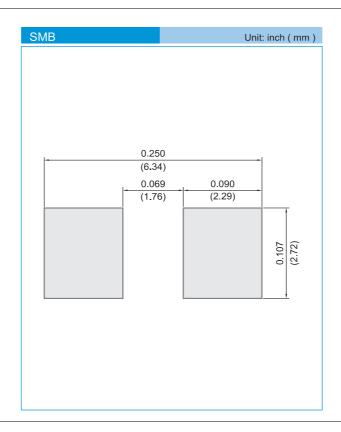


Fig.5 TYPICAL JUNCTION CAPACITANCE





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

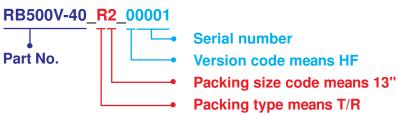
T/R - 3K per 13" plastic Reel

T/R - 0.5Kper 7" plastic Reel





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
T/B	A	N/A	0	HF	0	serial number
T/R	R	7"	1	RoHS	1	serial number
B/P	В	13"	2			
T/P	Т	26mm	X			
TRR	S	52mm	Υ			
TRL	L	PBCU	U			
FORMING	F	PBCD	D			

Part No_packing code_Version

UF2A_R1_00001

UF2A_R1_10001

UF2A_R2_00001

UF2A_R2_10001





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