



SURFACE MOUNT FAST RECOVERY RECTIFIER

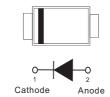
VOLTAGE 50 to 1000 Volt CURRENT 1 Ampere

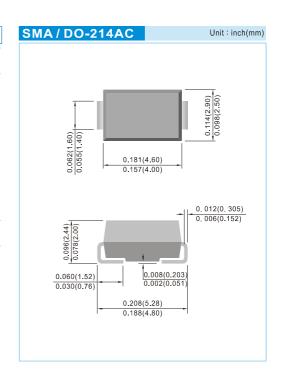
FEATURES

- For surface mounted applications in order to optimize board space
- · Easy pick and place
- · Fast 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-214AC 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: 0.0023 ounces, 0.0679 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%.

SYMBOL	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	UNITS
V _{RRM}	50	100	200	400	600	800	1000	٧
V _{RMS}	35	70	140	280	420	560	700	V
V _{DC}	50	100	200	400	600	800	1000	V
I _{F(AV)}	1						А	
I _{FSM}	30							Α
V _F	1.3					٧		
I _R	1 150							μА
t _{rr}	150 250 500			00	ns			
CJ	12					pF		
R _{eJA} R _{eJL}	100 32						°C / W	
T _J ,T _{STG}	-55 to +150						°C	
	V _{RRM} V _{RMS} V _{DC} I _{F(AV)} I _{FSM} V _F C R R BJA R BJA R BJA	V _{RRM} 50 V _{RMS} 35 V _{DC} 50 I _{F(AV)} I _{FSM} V _F C _J R _{BJA} R _{BJA} R _{BJA}	V _{RRM} 50 100 V _{RMS} 35 70 V _{DC} 50 100 I _{F(AV)} I _{FSM} V _F I _R t _{rr} 1 C _J R _{θJA} R _{θJA} R _{θJL}	V _{RRM} 50 100 200 V _{RMS} 35 70 140 V _{DC} 50 100 200 I _{F(AV)} I _{FSM} V _F I _R t _{rr} 150 C _J R _{BJA} R _{BJL}	V _{RRM} 50 100 200 400 V _{RMS} 35 70 140 280 V _{DC} 50 100 200 400 I _{F(AV)} 1 1 I _{FSM} 30 30 V _F 1.3 1 I _R 150 150 C _J 12 100 R _{ØJA} R _{ØJL} 32	V _{RRM} 50 100 200 400 600 V _{RMS} 35 70 140 280 420 V _{DC} 50 100 200 400 600 I _{F(AV)} 1 1 I _{FSM} 30 30 V _F 1.3 1 I _R 150 250 C _J 12 1 R _{GJA} R _{GJL} 100 32 32	V _{RRM} 50 100 200 400 600 800 V _{RMS} 35 70 140 280 420 560 V _{DC} 50 100 200 400 600 800 I _{F(AV)} 1 30 V _F 1.3 1 150 250 50 C _J 150 250 50 50 C _J 12 100 32 100 32	V _{RMS} 35 70 140 280 420 560 700 V _{DC} 50 100 200 400 600 800 1000 I _{F(AV)} 1 30 1.3 1.3 1.50 1.50 250 500 C _J 150 250 500 500 1.2 1.2 R _{BJA} R _{BJL} 100 R _{BJL} 32

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. 8mm² (0.013mm thick) land areas.





RATING AND CHARACTERISTIC CURVES

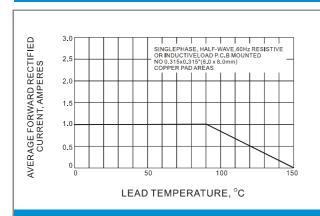


Fig.1 FORWARD CURRENT DERATING CURVE

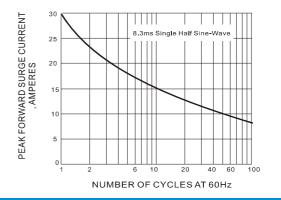


Fig.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

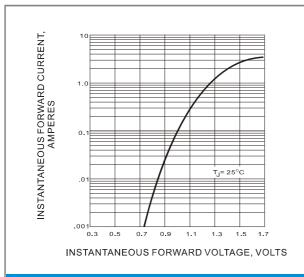


Fig.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

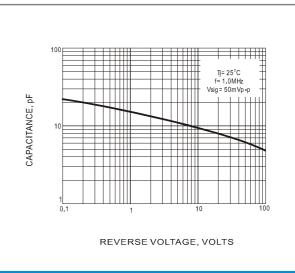


Fig.4 TYPICAL JUNCTION CAPACITANCE

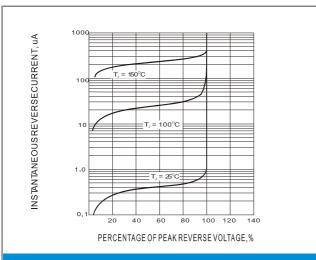
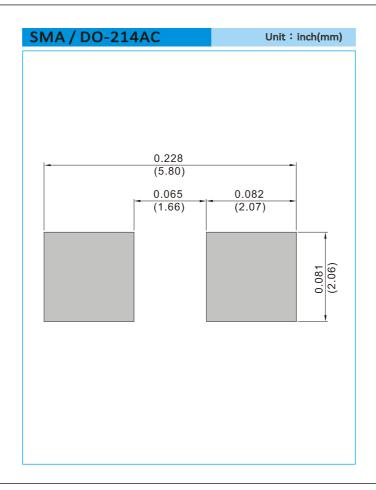


Fig.5-TYPICAL REVERSE CHARACTERISTIC





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 7.5K per 13" plastic Reel

T/R - 1.8K per 7" plastic Reel

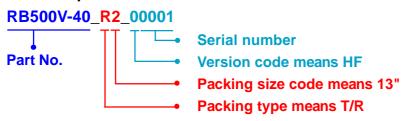




Part No_packing code_Version

RS1A_R1_00001 RS1A_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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