



SURFACE MOUNT RECTIFIER

VOLTAGE 50~1000 Volt CURRENT 5 Ampere

FEATURES

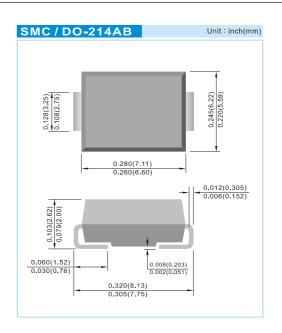
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- · Easy pick and place
- · Glass passivated junction
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard
- · AEC-Q101 qualified

MECHANICAL DATA

- Case: JEDEC SMC / 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, 0.23 grams







MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase , half wave ,60Hz, resistive or inductive load. For capacitive load , derate current by 20%.

SYMBOL	S5A-AU	S5B-AU	S5D-AU	S5G-AU	S5J-AU	S5M-AU	UNITS
V _{RRM}	50	100	200	400	600	1000	V
V _{RMS}	35	70	140	280	420	700	٧
V _{DC}	50	100	200	400	600	1000	V
I _{F(AV)}	5						А
I _{FSM}	275						А
l²t	313					A ² sec	
V _F	1.1					٧	
I _R	10 250					μA	
CJ			8	30		46	pF
R _{eja} R _{ejl}	75 10					°C / W	
T_J, T_{STG}	-55 to +150				°C		
	V _{RRM} V _{RMS} V _{DC} I _{F(AV)} I2t V _F R _{BJA} R _{BJL}	V _{RRM} 50 V _{RMS} 35 V _{DC} 50 I _{F(AV)} I _{FSM} I2t V _F I _R C _J R _{BJA} R _{BJL}	V _{RRM} 50 100 V _{RMS} 35 70 V _{DC} 50 100 I _{F(AV)} I _{FSM} I ² t V _F I _R C _J R _{BJA} R _{BJL}	V _{RRM} 50 100 200 V _{RMS} 35 70 140 V _{DC} 50 100 200 I _{FAM} 2 I ² t 3 V _F 1 I _R 2 C _J 8 R _{BJA} R _{BJL} 7 I 1	V _{RRM} 50 100 200 400 V _{RMS} 35 70 140 280 V _{DC} 50 100 200 400 I _{FAM} 275 I2t 313 V _F 1.1 I _R 10 250 C _J 80 R _{BJA} R _{BJL} 75 10	V _{RRM} 50 100 200 400 600 V _{RMS} 35 70 140 280 420 V _{DC} 50 100 200 400 600 I _{FSM} 275 12t 313 V _F 1.1 I _R 250 C _J 80 R _{BJA} R _{BJL} 75 10	V _{RRM} 50 100 200 400 600 1000 V _{RMS} 35 70 140 280 420 700 V _{DC} 50 100 200 400 600 1000 I _{FSM} 275 I2t 313 V _F 1.1 I _R 250 C _J 80 46 R _{BJA} R _{BJL} 75 10

NOTES

- 1.Measured at 1 MHZ and applied Vr=4 volts.
- 2.8mm² (0.013mm thick)land areas.





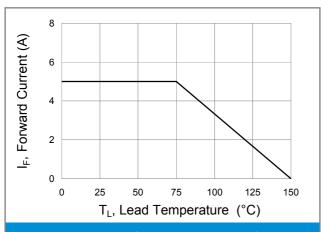


Fig.1 Forward Current Derating Curve

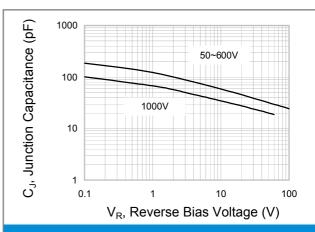


Fig.2 Typical Junction Capacitance

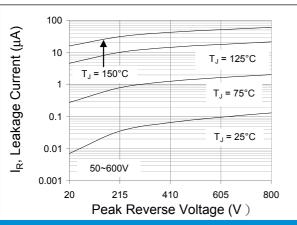


Fig.3 Typical Reverse Characteristics

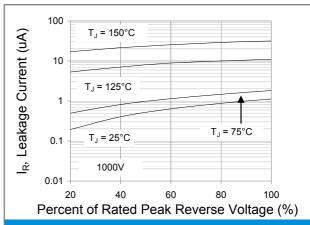
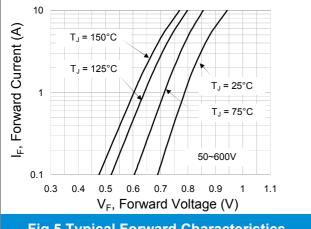


Fig.4 Typical Reverse Characteristics





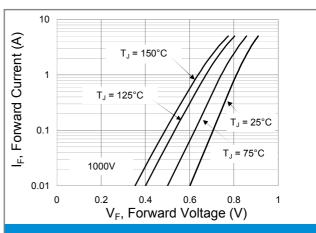


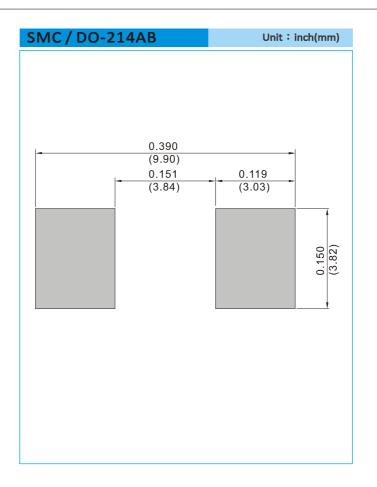
Fig.6 Typical Forward Characteristics

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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

S5A-AU_R1_000A1 S5A-AU_R2_000A1

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	Υ					
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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