



LOW VF SURFACE MOUNT SCHOTTKY RECTIFIER

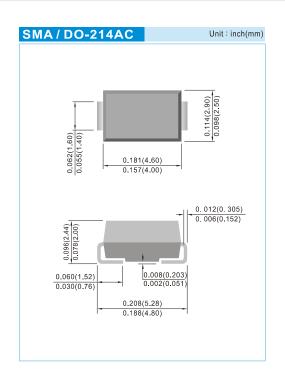
VOLTAGE 20 to 90 Volt CURRENT 1.0 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · For surface mounted applications
- · Low profile package
- · Built-in strain relief
- Metal to silicon rectifier. majority carrier conduction
- · Low power loss, high efficiency
- · High surge capacity
- High current capacity, low V_F
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- Lead free in compliance with EU RoHS 2.0
- •ÁGreen 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(Ta=25°C unless otherwise noted)

PARAMETER	SYMBOL	SS12L	SS13L	SS14L	SS14AL	SS16L	SS19L	UNIT
Maximum repetitive peak reverse voltage	VRRM	20	30	40	45	60	90	٧
Maximum rms voltage	VRMS	14	21	28	31.5	42	64	٧
Maximum dc blocking voltage	VR	20	30	40	45	60	90	V
Maximum average forward rectified current	l F(AV)	1						Α
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	IFSM	30 40						Α
Maximum thermal resistance	Roja Rojl	120 40						°C/W
Operating junction temperature range	TJ	-55 to + 125 -55 to +150					°C	
Storage temperature range	Тѕтс	-55 to + 150 -55 to +150					°C	

ELECTRICAL CHARACTERISTICS(TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	SS12L	SS13L	SS14L	SS14AL	SS16L	SS19L	UNIT
Maximum instantaneous forward voltage (Notes 1)	VF	I ==1.0A	0.42		0.45	0.50	0.68	V	
Maximum reverse current at rated peak reverse voltage	IR	-	20	00		100		80	μА

NOTES:

1. Pulse test : $300\,\mu s$ pulse width, 1% duty cycle.





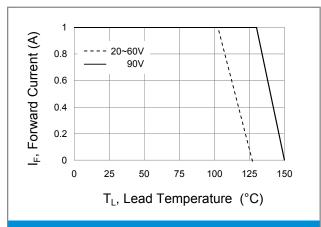


Fig.1 Forward Current Derating Curve

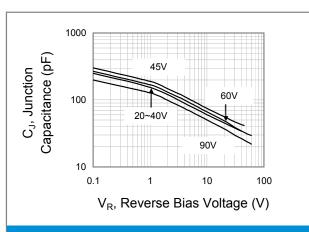


Fig.2 Typical Junction Capacitance

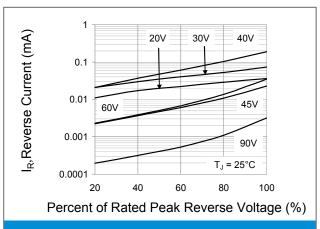


Fig.3 Typical Reverse Characteristics

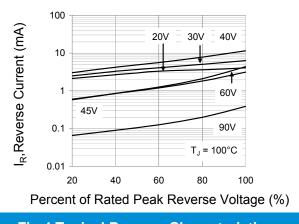


Fig.4 Typical Reverse Characteristics

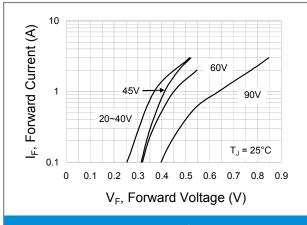


Fig.5 Typical Forward Characteristics

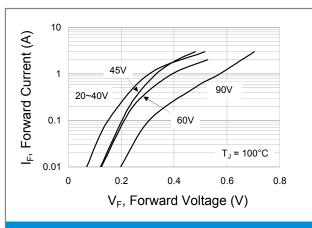
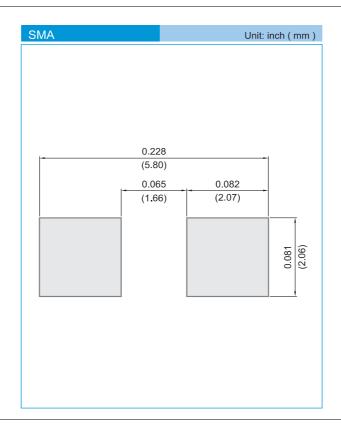


Fig.6 Typical Forward Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 7.5K per 13" plastic Reel

T/R - 1.8Kper 7" plastic Reel

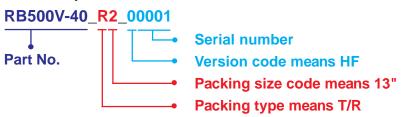




Part No_packing code_Version

SS12L_R1_00001 SS12L_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)	Ø	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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