



#### LOW VF SURFACE MOUNT SCHOTTKY RECTIFIER

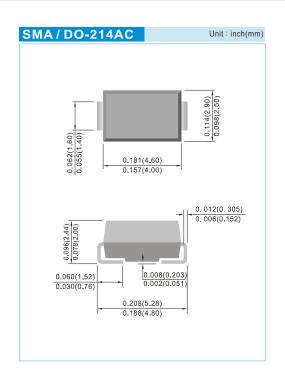
VOLTAGE 20 to 90 Volt CURRENT 1.0 Ampere

#### **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<sub>F</sub>
- 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)

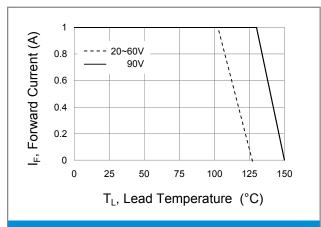
PARAMETER	SYMBOL	TEST CONDITIONS	SS12L	SS13L	SS14L	SS14AL	SS16L	SS19L	UNIT
Maximum instantaneous forward voltage (Notes 1)	VF	I ==1.0A	0.42		0.45	0.50	0.68	<b>V</b>	
Maximum reverse current at rated peak reverse voltage	IR	-	20	00		100		80	μА

#### NOTES:

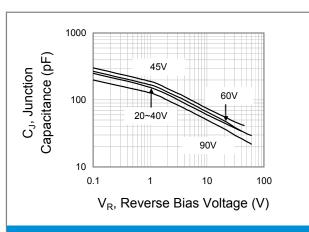
1. Pulse test :  $300\,\mu s$  pulse width, 1% duty cycle.







**Fig.1 Forward Current Derating Curve** 



**Fig.2 Typical Junction Capacitance** 

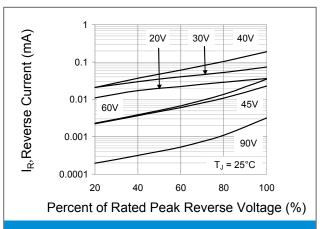
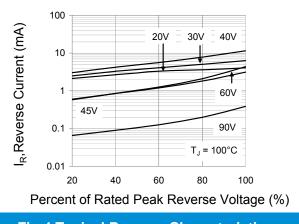


Fig.3 Typical Reverse Characteristics



**Fig.4 Typical Reverse Characteristics** 

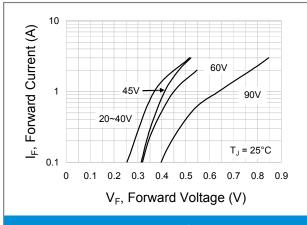


Fig.5 Typical Forward Characteristics

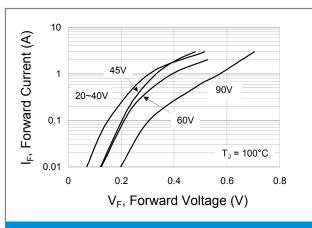
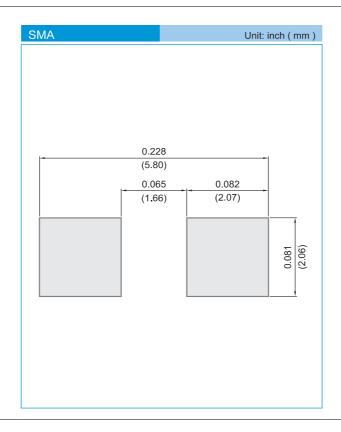


Fig.6 Typical Forward Characteristics





### **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 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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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SS19L\_R1\_00001 SS19L\_R2\_00001