



SSCSSS32DAF THRU SSCSSS320DAF

Schottky Barrier Diode

● Features

- ✧ Reverse Voltage - 20 to 200 V
- ✧ Forward Current - 3.0A
- ✧ Low profile package
- ✧ Ideal for automated placement
- ✧ Ultrafast reverse recovery time
- ✧ Low power losses, high efficiency
- ✧ Low forward voltage
- ✧ High surge capability
- ✧ UL Flammability Classification Rating 94V-0
- ✧ High temperature soldering: 260°C/10 seconds at terminals

● PIN configuration



SMAF



Circuit Diagram

● Applications

- ✧ Low Voltage
- ✧ High-Frequency Inverters
- ✧ Free Wheeling
- ✧ Polarity Protection



Marking

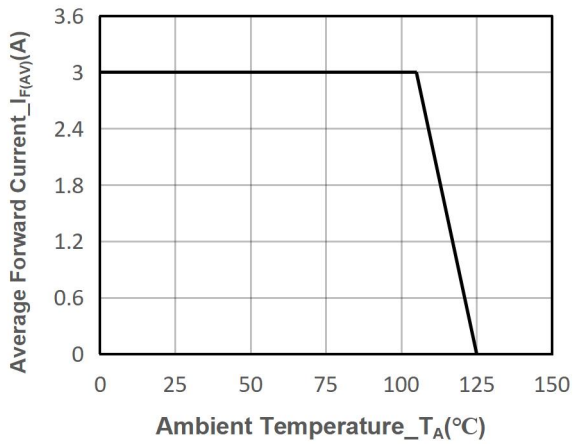
(SS34:SSCSSS34DAF Marking Code)

● Absolute maximum rating @T_A=25°C

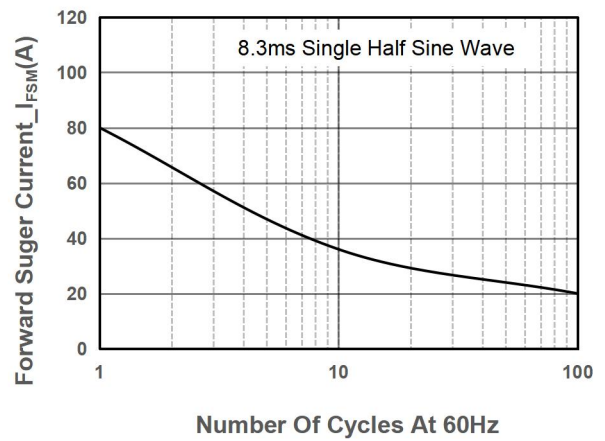
Parameter	Symbol	SSCSSS						Unit
		32DAF	34DAF	36DAF	310DAF	315DAF	320DAF	
Maximum Peak Repetitive Peak Reverse Voltage	V _{RRM}	20	40	60	100	150	200	V
Maximum RMS Voltage	V _{RMS}	14	28	42	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	40	60	100	150	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}	3.0						A
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	80						A
Max Instantaneous Forward Voltage at 3 A	V _F	0.55	0.55	0.70	0.85	0.95	0.95	V
Maximum DC Reverse Current Ta = 25 ℃ at Rated DC Blocking Voltage Ta =100 ℃	I _R	0.2 20			0.05 5			mA
Operating Temperature	T _J	-55 ~ +150						℃
Storage Temperature	T _{STG}	-55 ~ +150						℃



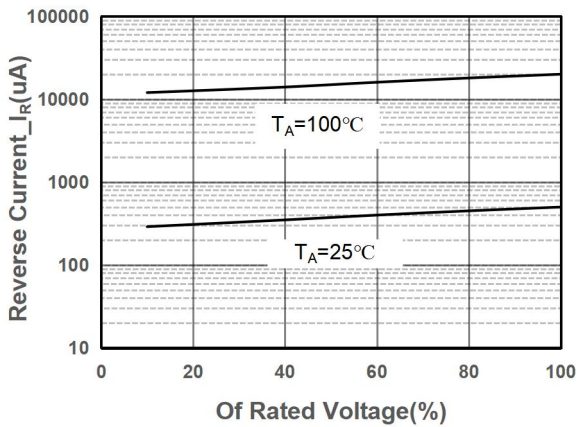
● Typical Performance Characteristics



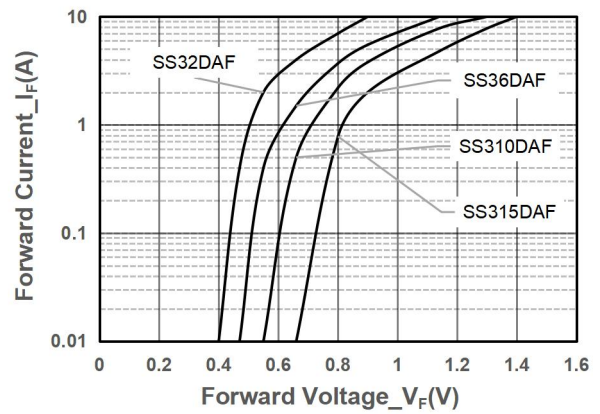
I_o -TL Curve



Surge Forward Current Capability Voltage



Typical Reverse Characteristics



Forward Voltage vs. Forward Current



● Package Information

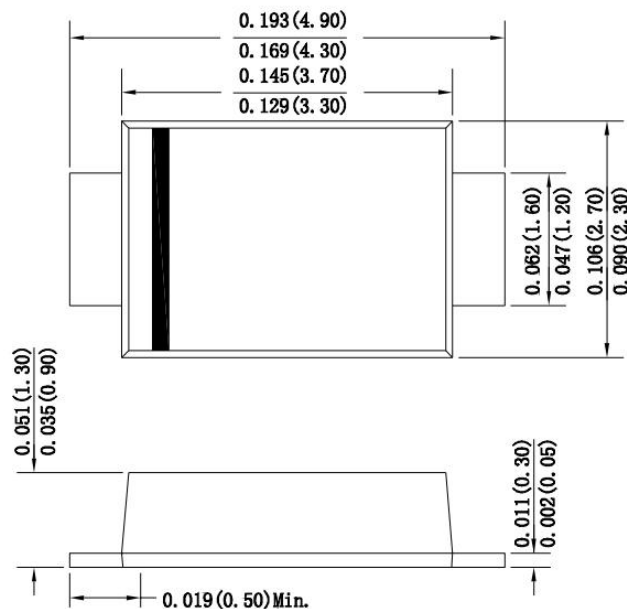
Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSCSSS32DAF	SMAF	SS32	3000	7 Inch
SSCSSS34DAF	SMAF	SS34	3000	7 Inch
SSCSSS36DAF	SMAF	SS36	3000	7 Inch
SSCSSS310DAF	SMAF	SS310	3000	7 Inch
SSCSSS315DAF	SMAF	SS315	3000	7 Inch
SSCSSS320DAF	SMAF	SS320	3000	7 Inch

Mechanical Data

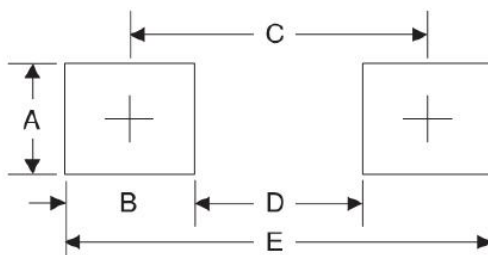
Case: SMAF

Case Material: Molded Plastic. UL Flammability



Dimensions in inches and (millimeters)

Recommended Pad outline



Symbol	Unit (mm)	Unit (inch)
A	1.68	0.066
B	1.52	0.060
C	3.90	0.154
D	2.00	0.078
E	5.10	0.200



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