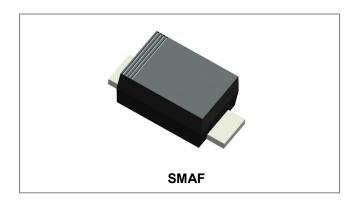






SS32AF THRU SS320AF SCHOTTKY RECTIFIER



Features

- Schottky Barrier Rectifier
- Guard Ring Die Protection
- Low Forward Voltage
- Reverse Energy Tested
- High Current Capability
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

- Case: JEDEC SMAF molded plastic body
- Terminals: leads solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.038 gramsMounting Position: Any

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Symbol	SS32 AF	SS33 AF	SS34 AF	SS35 AF	SS36 AF	SS38 AF	SS310 AF	SS315 AF	SS320 AF	Units
Maximum Repetitive Peak Reverse Voltage Maximum DC Blocking Voltage	V _{RRM} V _{DC}	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	105	150	V
Maximum Average Forward Rectified Current at T _L (see fig.1)	I _{F(AV)}	3.0					Α				
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	70						А			
Maximum Instantaneous Forward Voltage @ I _F = 3.0A, T _J = 25°C	V _F	0.55 0.70		0.85		0.95	V				
Maximum DC Reverse Current @T _J = 25°C	I _R	0.5								mA	
At Rated DC Blocking Voltage @T _J = 100°C	I IR	20					10 2		.0	IIIA	
Typical Junction Capacitance(Note 1)	C₁	500			300				pF		
Typical Thermal Resistance Junction to Ambient(Note 2)	R _{θJA}	80					°C/W				
Operating Temperature Range	TJ	-55 to +125			-55 to +150				°C		
Storage Temperature Range	T _{STG}	-55 to +150					°C				

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

- China Germany Korea Singapore United States
 - http://www.smc-diodes.com
 sales@ smc-diodes.com



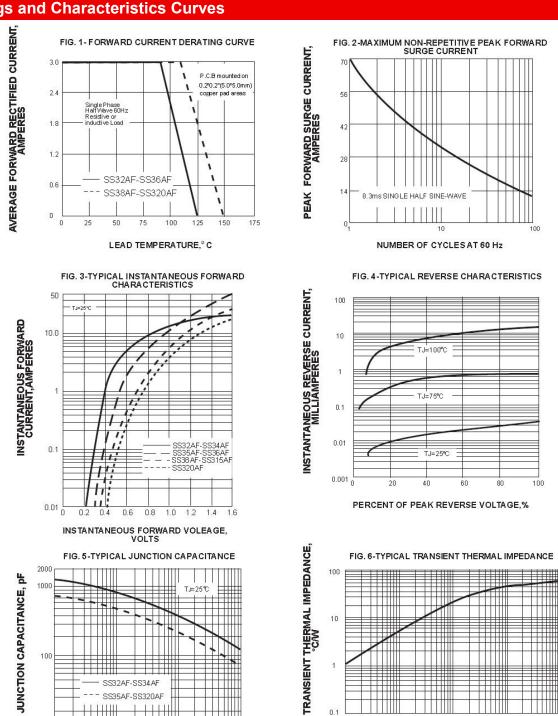




Ratings and Characteristics Curves

10 -

REVERSE VOLTAGE, VOLTS



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0.1

t,PULSE DURATION,sec.

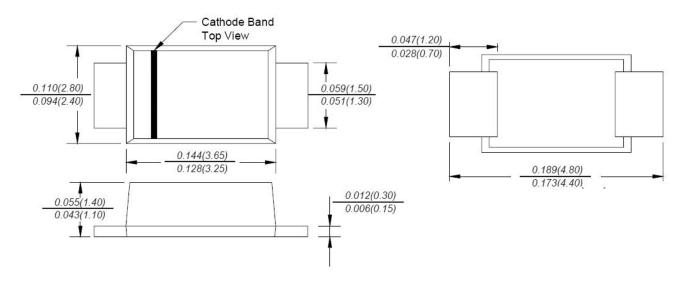
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Mechanical Dimensions SMAF(Millimeters/Inches)



Ordering Information

Device	Package	Shipping			
SS32AF					
THRU	SMAF (Pb-Free)	3000pcs / reel			
SS320AF		·			

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



Where XXXXX is YYWWL YYWWL date code marked on box.

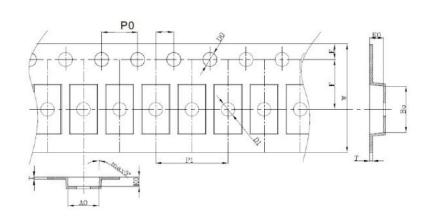
 SS32AF
 = Part Name

 YY
 = Year

 WW
 = Week

 L
 = Lot Number

Carrier Tape Specification SMAF



SYMBOL	Millimeters				
STIMBUL	Min.	Max.			
A0	2.83	3.03			
B0	2.23	5.43			
K0	1.23	1.43			
P0	3.90	4.10			
P1	3.90	4.10			
P2	1.90	2.10			
Т	0.17	0.23			
E	1.63	1.83			
F	5.45	5.65			
D0	1.50	1.60			
D1	1.45	1.55			
W	11.70	12.30			

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