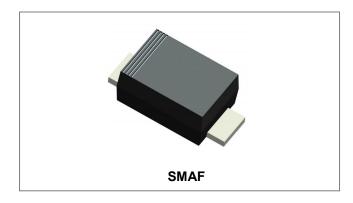


SK32AF THRU SK320AF

RoHS

Technical Data Data Sheet N1572, Rev. B SK32AF THRU SK320AF 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

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 grams
- Mounting Position: Any

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

Characteristic	Symbol	SK32 AF	SK33 AF	SK34 AF	SK35 AF	SK36 AF	SK38 AF	SK310 AF	SK315 AF	SK320 AF	Units
Marking code		SS32 AF	SS33 AF	SS34 AF	SS35 AF	SS36 AF	SS38 AF	SS310 AF	SS315 AF	SS320 AF	
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					A				
Maximum Instantaneous Forward Voltage @ $I_F = 3.0A, T_J = 25^{\circ}C$	VF		0.55		0.	70		0.85		0.95	V
Maximum DC Reverse Current @T _J = 25°C	1	0.5 0.1					mA				
At Rated DC Blocking Voltage @T _J = 100°C	I _R	20			10	2.0		- mA			
Typical Junction Capacitance(Note 1)	CJ	500 300			300	· ·					
Typical Thermal Resistance Junction to Ambient(Note 2)	R _{0JA}	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

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Circuit Diagram



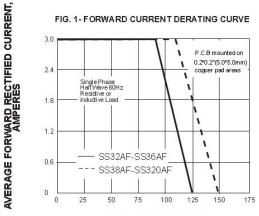


SK32AF THRU SK320AF

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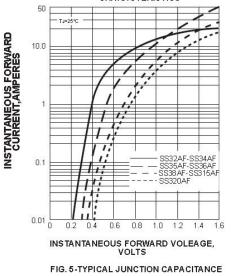


Ratings and Characteristics Curves



LEAD TEMPERATURE,° C





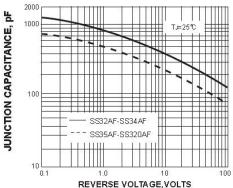
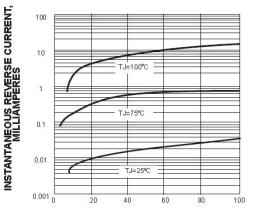


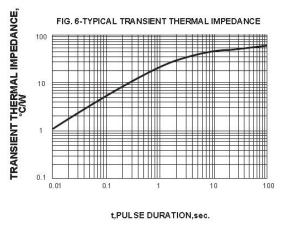
FIG. 2-MA XIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

NUMBER OF CYCLES AT 60 Hz

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF PEAK REVERSE VOLTAGE,%



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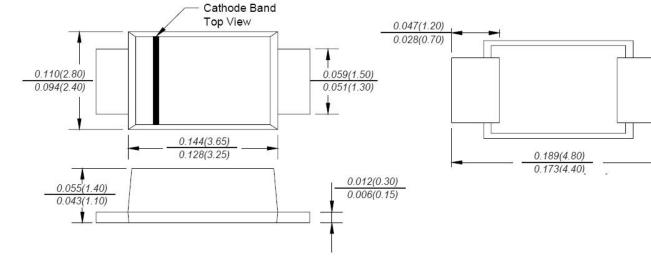
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DIDDE SOLUTIONS

17

Mechanical Dimensions SMAF(Millimeters/Inches)



Marking Diagram

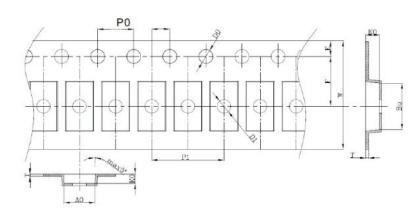
SS32AF

Ordering Information

Device	Package	Shipping			
SK32AF					
THRU	SMAF (Pb-Free)	3000pcs / reel			
SK320AF		-			

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

Carrier Tape Specification SMAF



SYMBOL	Millimeters				
STMBOL	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			



SK32AF

THRU

Where XXXXX is YYWWL YYWWL date code marked on box.

SS32AF = Marking Code YY = Year ww

= Week = Lot Number

L



Technical Data Data Sheet N1572, Rev. B

SK32AF THRU SK320AF

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