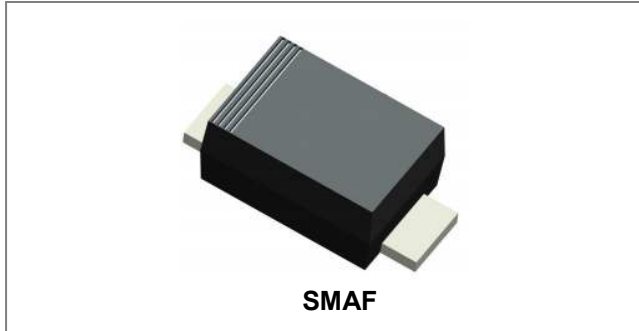


## SS22AF THRU SS220AF SCHOTTKY RECTIFIER



### Features

- Schottky Brier Chip
- Low Power Loss, High Efficiency
- Ideally Suited for Automatic Assembly
- Surge Overload Rating to 50A Peak
- Plastic Case Material has 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: SMAF, Molded plastic
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any

### Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

Type Number	Symbol	SS 22AF	SS 23AF	SS 24AF	SS 245AF	SS 25AF	SS 26AF	SS 28AF	SS 210AF	SS 215AF	SS 220AF	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>DC</sub>	20	30	40	45	50	60	80	100	150	200	V
RMS Reverse Voltage	V <sub>RMS</sub>	14	21	28	31	35	42	56	70	105	140	V
Average forward rectified output current @T <sub>A</sub> = 90°C	I <sub>O</sub>	2										A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	50										A
Forward Voltage (per element) @I <sub>F</sub> =2.0A	V <sub>FM</sub>	0.55			0.7			0.85		0.92		V
Peak Reverse Current @T <sub>A</sub> = 25°C At Rated DC Blocking Voltage @T <sub>A</sub> = 100°C	I <sub>RM</sub>	0.1 10					0.05 5					mA
Typical Junction Capacitance(per leg) (Note 1)	C <sub>J</sub>	28										pF
Typical Thermal Resistance (per leg) (Note 2)	R <sub>θJL</sub>	88										°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150										°C

Note: 1. V<sub>R</sub> = 5V, T<sub>C</sub> = 25 °C, f<sub>SIG</sub> = 1MHz  
2. mounted on P.C. Board with 5.0mm<sup>2</sup> copper pad areas.

**Ratings and Characteristics Curves**

Fig. 1 Forward Current Derating Curve

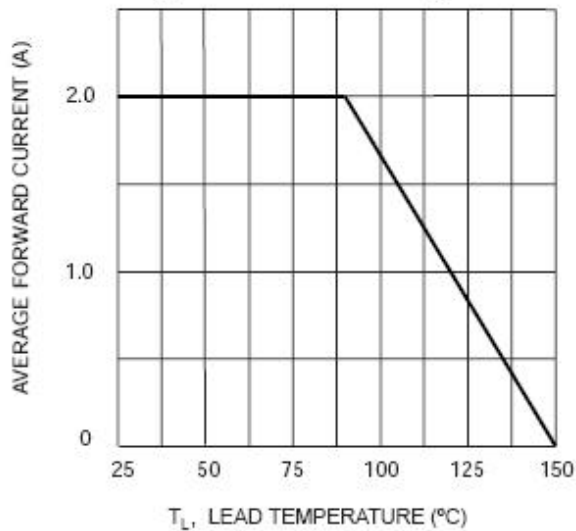


Fig. 2 Typ. Forward Characteristics

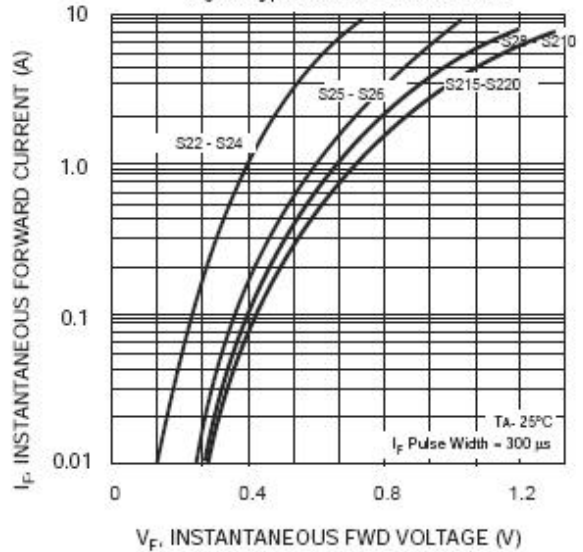


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

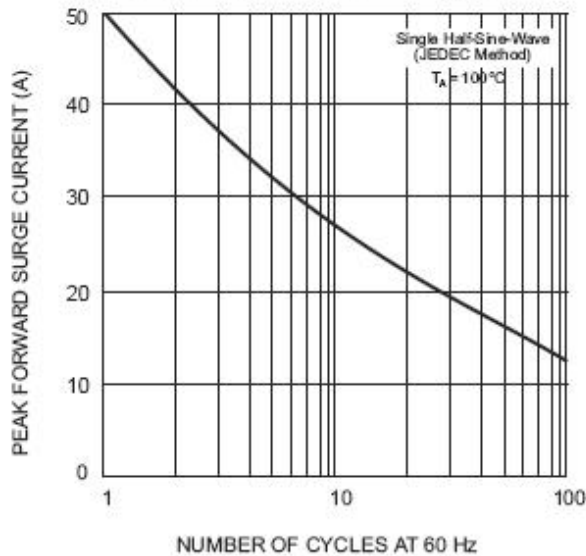
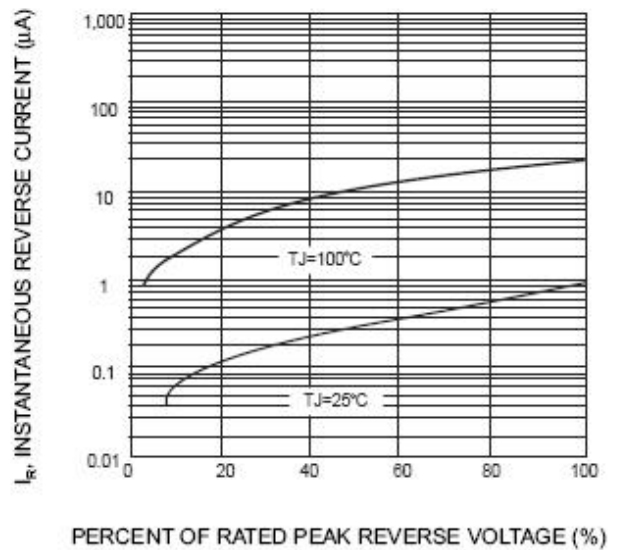
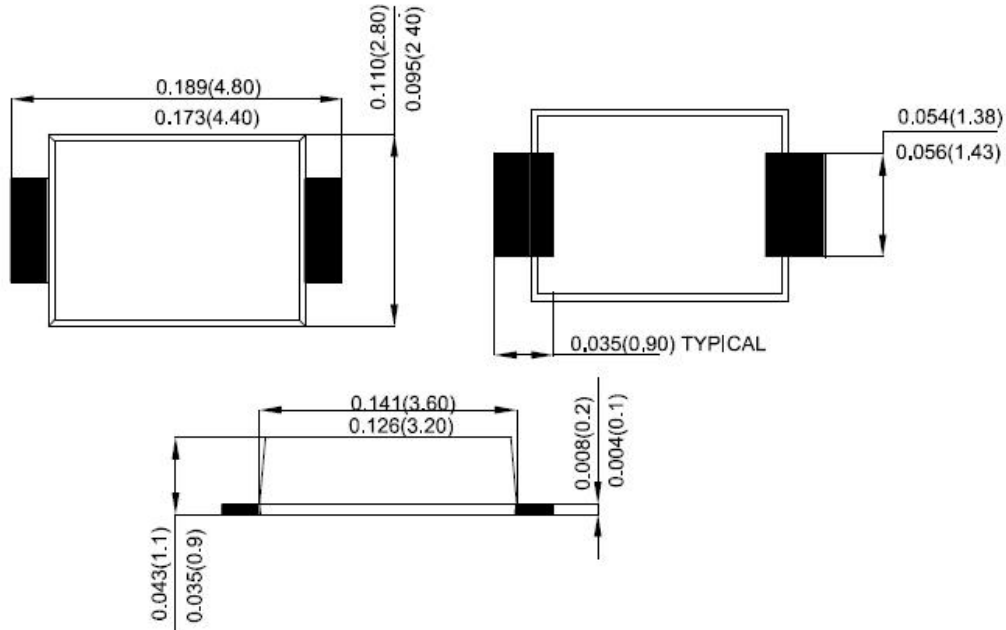


Fig. 4 Typical Reverse Characteristics (per element)



**Mechanical Dimensions SMAF (Millimeters/Inches)**



**Ordering Information**

Device	Package	Shipping
SS22AF - SS220AF	SMAF (Pb-Free)	3000pcs / reel

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

**Marking Diagram**

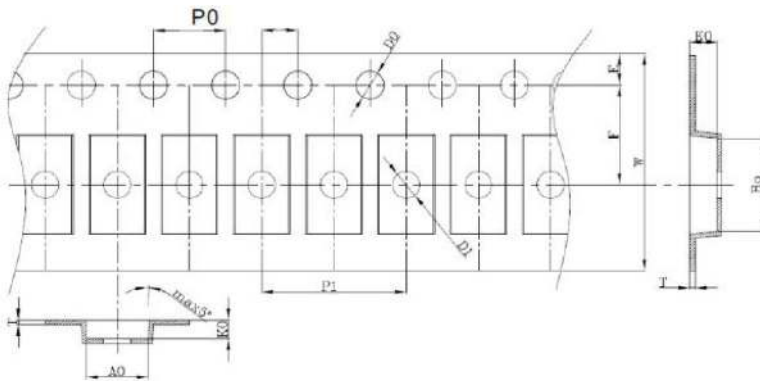


Where XXXXX is YYWWL

SS22AF = Part Name  
YY = Year  
WW = Week  
L = Lot Number

**Cautions:** Molding resin  
Epoxy resin UL:94V-0

**Carrier Tape Specification SMAF**



SYMBOL	Millimeters	
	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
T	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



SS22AF  
THRU  
SS220AF

**Technical Data**  
**Data Sheet N2084, Rev. -**



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