

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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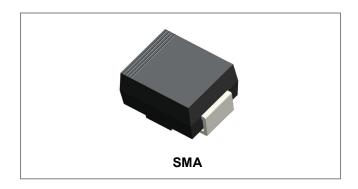








SS22A THRU SS225A SCHOTTKY RECTIFIER



Features

- Schottky Brrier 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: SMA, 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_A=25°C unless otherwise specified

Type Number	Symbol	SS 22A	SS 23A	SS 24A	SS 245A	SS 25A	SS 26A	SS 28A	SS 210A	SS 215A	SS 220A	SS 225A	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _{DC}	20	30	40	45	50	60	80	100	150	200	250	V
RMS Reverse Voltage	V _{RMS}	14	21	28	31	35	42	56	70	105	140	175	V
Average forward rectified output current @T _A = 90°C	lo	2					Α						
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50					Α						
Forward Voltage (per element) @I _F =2.0A	V _{FM}		0.	.55		0	.7	0	.85	0.	92	0.95	V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _{RM}	0.1 10		•	0.05 5				mA				
Typical Junction Capacitance(per leg) (Note 1)	CJ	28				pF							
Typical Thermal Resistance (per leg) (Note 2)		88							°C/W				
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C				

Note: 1. $V_R = 5V$, $T_C = 25$ °C, $f_{SIG} = 1MHz$

2. mounted on P.C. Board with 5.0mm² copper pad areas.

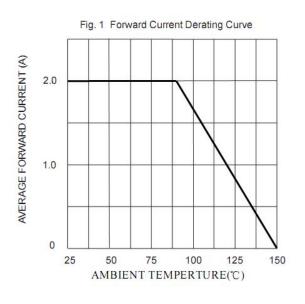
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Ratings and Characteristics Curves



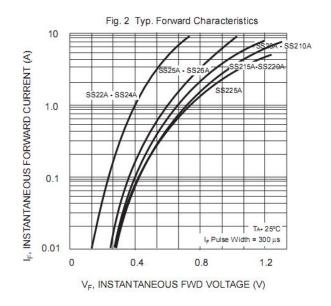


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

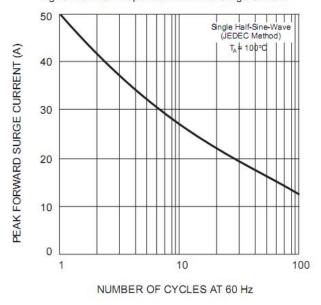
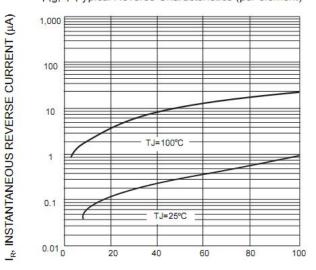


Fig. 4 Typical Reverse Characteristics (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)

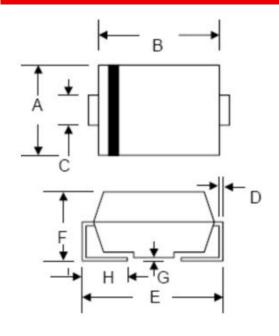
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Mechanical Dimensions SMA



SYMBOL	Millin	meters	Inches			
STWIBOL	Min.	Max.	Min.	Max.		
А	2.40	2.84	0.094	0.112		
В	3.99	4.75	0.157	0.187		
С	1.05	1.70	0.041	0.067		
D	0.15	0.51	0.006	0.020		
Е	4.80	5.66	0.189	0.223		
F	1.90	2.95	0.075	0.116		
G	0.05	0.25	0.002	0.010		
Н	0.76	1.52	0.030	0.600		

Ordering Information

Device	Package	Shipping			
SS22A - SS225A	SMA (Pb-Free)	5000pcs / 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

 SS22A
 = Part Name

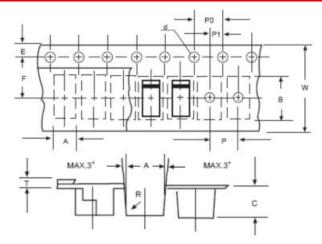
 YY
 = Year

 WW
 = Week

 L
 = Lot Number

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

Carrier Tape Specification SMA



SYMBOL	Millimeters				
	Min.	Max.			
Α	2.97	3.17			
В	5.70	5.90			
С	2.32	2.52			
d	1.40	1.60			
Е	1.40	1.60			
F	5.60	5.70			
Р	3.90	4.10			
P0	3.90	4.10			
P1	1.90	2.10			
Т	0.25	0.35			
W	11.80	12.20			

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