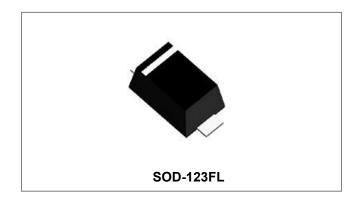






DSS22 THRU DSS210 SINGLE PHASE 2.0AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER



Features

- The plastic package carries Underwriters
 Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High temperature soldering guaranteed: 260/10° C seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension
- 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: SOD-123FL, molded plastic
- Terminals: Plated leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band dentes cathode end
- Mounting Position: Any

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

Characteristic	Symbol	DSS 22	DSS 23	DSS 24	DSS 25	DSS 26	DSS 27	DSS 28	DSS 29	DSS 210	Units
	Code	D22	D23	D24	D25	D26	D27	D28	D29	D210	
Peak Repetitive Reverse Voltage	V_{RRM}	20	30	40	50	60	70	80	90	100	V
DC Blocking Voltage	V _{DC}	20	30	40	50	60	70	80	90	100	V
RMS Reverse Voltage	V _{RMS}	14	21	28	35	42	49	56	63	70	V
Average Rectified Output Current at T _L =90°C	I _{F(AV)}	2.0					Α				
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on Rated load(JEDEC Method)	I _{FSM}	40					А				
Forward Voltage per element @I _F =2.0A	V _F	0.55 0			70	0.85				V	
Peak Reverse Current T _A =25 ℃		0.5					mA				
at rated DC blocking voltage T _A =100 ℃	IR	I _R 10 5									
Typical Junction Capacitance (Note 1)	Сл	220 180					pF				
Typical Thermal Resistance Junction to Ambient (Note 2)	R _{θJA}	180					°C/W				
Junction and Storage Temperature Range	TJ	-55 to +125 -55 to +15			+150		°C				
Junction and Storage Temperature Range	T _{STG}	-55 to +150				°C					

- Note: 1. Measured at 1MHz and applied reverse voltage of 4V D.C
 - 2. PCB mounted on 0.2 X 0.2" (5.0 X 5.0 mm) copper pad areas.
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 sales@ smc-diodes.com

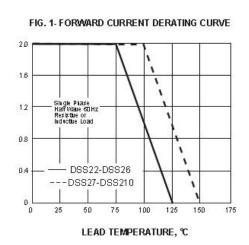




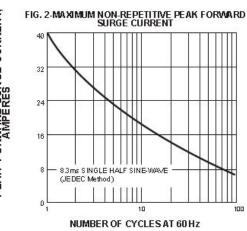


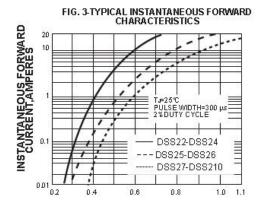
Ratings and Characteristics Curves



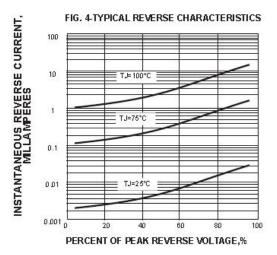


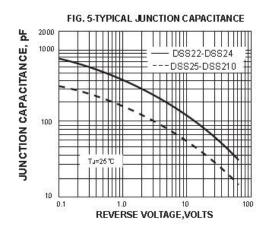












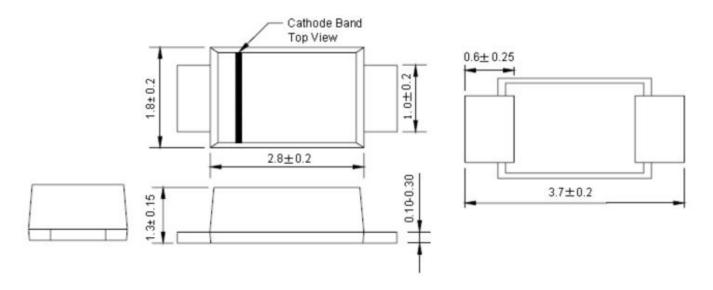
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Mechanical Dimensions SOD-123FL(Millimeters)

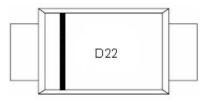


Ordering Information

Device	Package	Shipping			
DSS22	COD 422EI				
THRU	SOD-123FL	3000pcs / reel			
DSS210	(Pb-Free)				

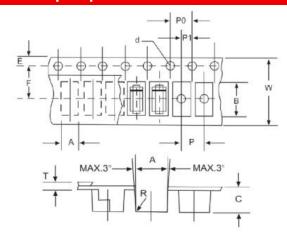
For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



D22 = Marking Code

Carrier Tape Specification SOD-123FL



SYMBOL	Millimeters				
	Min.	Max.			
Α	1.95	2.15			
В	3.85	4.05			
С	1.35	1.55			
d	1.50	1.60			
E	1.65	1.85			
F	3.40	3.60			
Р	3.90	4.10			
P0	3.90	4.10			
P1	1.90	2.10			
W	7.90	8.30			

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