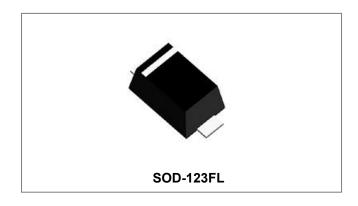






DSS22 THRU DSS220 SINGLE PHASE 2.0AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER



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 Halogen 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 28	DSS 210	DSS 215	DSS 220	I I mita
	Marking Code	D22	D23	D24	D25	D26	D28	D210	D215	D220	Units
Peak Repetitive Reverse Voltage DC Blocking Voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	V
	V _{DC}	20	30	40	50	60	80	100	150	200	V
RMS Reverse Voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	V
Average Rectified Output Current at T∟=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		0.92		V	
Peak Reverse Current T _A =25 ℃	0.5										
at rated DC blocking voltage T _A =100 $^{\circ}{\mathbb{C}}$	I _R	R 10 5									⊣ mA ∥
Typical Junction Capacitance (Note 1)	Сл	80 40				pF					
Typical Thermal Resistance Junction to Ambient (Note 2)	R _{θJA}	75					°C/W				
Junction and Storage Temperature Range	TJ	-55 to +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.

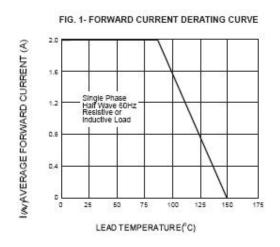
- China Germany Korea Singapore United States
 - http://www.smc-diodes.com sales@ smc-diodes.com •

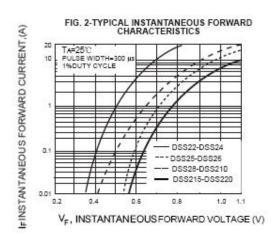


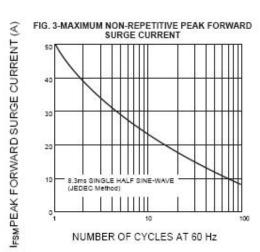


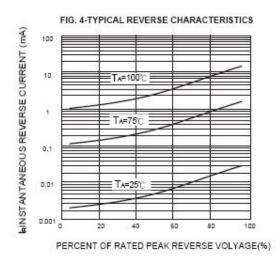


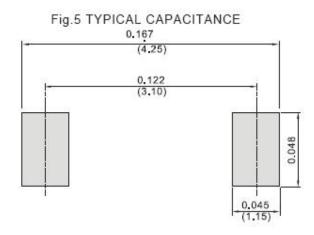
Ratings and Characteristics Curves











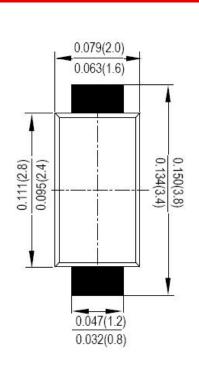
- China Germany Korea Singapore United States
 - http://www.smc-diodes.com sales@ smc-diodes.com •

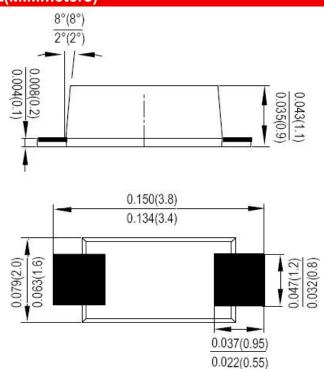






Mechanical Dimensions SOD-123FL(Millimeters)



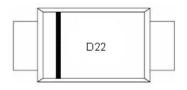


Ordering Information

Device	Package	Shipping			
DSS22					
THRU	SOD-123FL	3000pcs / reel			
DSS220					

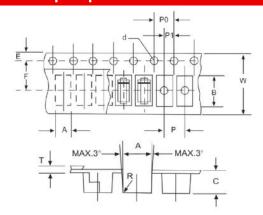
For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

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			

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







DISCLAIMER:

- 1- The information given herein, including the specifications and dimensions, is subject to change without prior notice to improve product characteristics. Before ordering, purchasers are advised to contact the SMC Diode Solutions sales department for the latest version of the datasheet(s).
- 2- In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, medical equipment, and safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangement.
- 3- In no event shall SMC Diode Solutions be liable for any damages that may result from an accident or any other cause during operation of the user's units according to the datasheet(s). SMC Diode Solution assumes no responsibility for any intellectual property claims or any other problems that may result from applications of information, products or circuits described in the datasheets.
- 4- In no event shall SMC Diode Solutions be liable for any failure in a semiconductor device or any secondary damage resulting from use at a value exceeding the absolute maximum rating.
- 5- No license is granted by the datasheet(s) under any patents or other rights of any third party or SMC Diode Solutions.
- 6- The datasheet(s) may not be reproduced or duplicated, in any form, in whole or part, without the expressed written permission of SMC Diode Solutions.
- 7- The products (technologies) described in the datasheet(s) are not to be provided to any party whose purpose in their application will hinder maintenance of international peace and safety nor are they to be applied to that purpose by their direct purchasers or any third party. When exporting these products (technologies), the necessary procedures are to be taken in accordance with related laws and regulations..