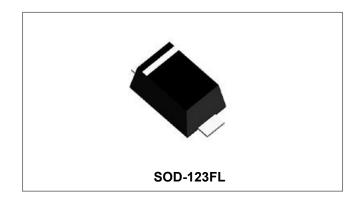






DSS22 THRU DSS220 SINGLE PHASE 2.0AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER



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	V _{RRM}	20	30	40	50	60	80	100	150	200	V
DC Blocking Voltage	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								m A		
at rated DC blocking voltage T _A =100 $^{\circ}{\mathbb{C}}$	I _R	10 5									⊢ mA
Typical Junction Capacitance (Note 1)	CJ	80 40			40						
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.

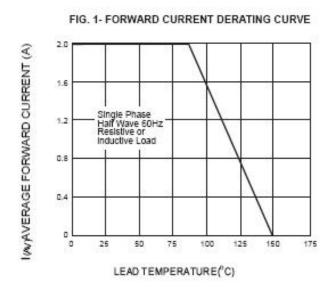
- China Germany Korea Singapore United States
 - http://www.smc-diodes.com sales@ smc-diodes.com •

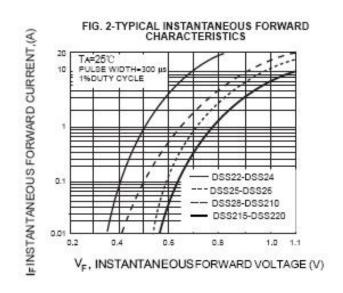


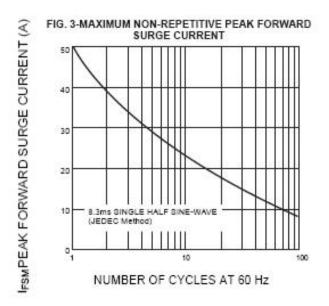


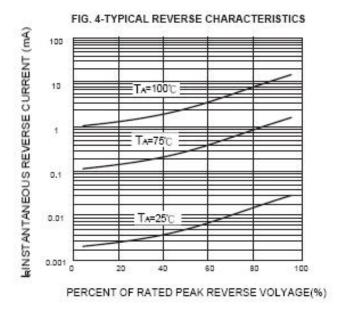


Ratings and Characteristics Curves









[•] China - Germany - Korea - Singapore - United States •

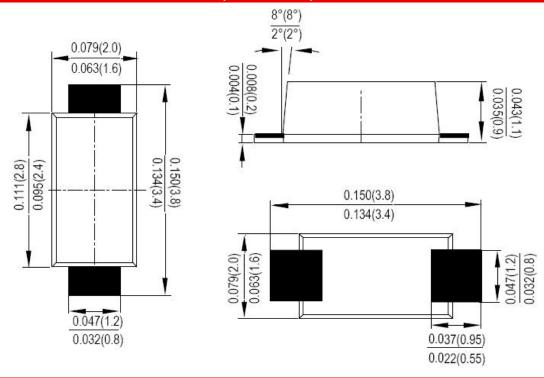
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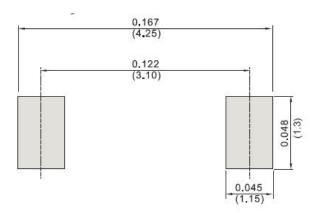




Mechanical Dimensions SOD-123FL(Millimeters)



Recommended Soldering Pattern (mm)

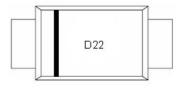


Ordering Information

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

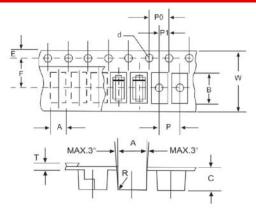
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Carrier Tape Specification SOD-123FL



SYMBOL	Millimeters				
STIMBOL	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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