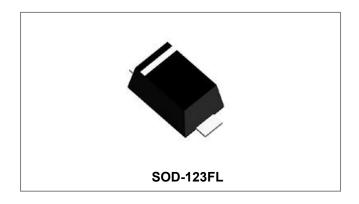






DSS12U THRU DSS125U SINGLE PHASE 1.0AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER



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 12U	DSS 13U	DSS 14U	DSS 15U	DSS 16U	DSS 18U	DSS 110U	DSS 115U	DSS 120U	DSS 125U	Units
	Code	D12U	D13U	D14U	D15U	D16U	D18U	D110U	D115U	D120U	D125U	
Peak Repetitive Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	250	V
Working Peak Reverse Voltage	V _{RWM}	20	30	40	50	60	80	100	150	200	250	V
DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	150	200	250	V
RMS Reverse Voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	175	V
Average Rectified Output Current at T _L =90°C	I _{F(AV)}	1.0						Α				
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on Rated load(JEDEC Method)	I _{FSM}	40						А				
I ² t Rating for Fusing (t < 8.3ms)	l²t	6.640					A ² s					
Forward Voltage per element @I _F =1.0A	V _F		0.50		0.	.67	0	.80	0	.90	0.92	V
Peak Reverse Current T _A =25 ℃	l _a	0.1 0.05								mA		
at rated DC blocking voltage T _A =100 °C	I _R	10 5										
Typical Junction Capacitance (Note 1)	Сл	110 80				pF						
Junction and Storage Temperature Range	$T_{J,}T_{STG}$	-55 to +150					°C					

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

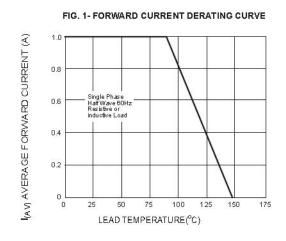
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 - http://www.smc-diodes.com
 sales@ smc-diodes.com

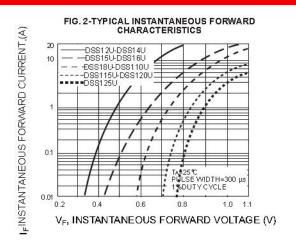


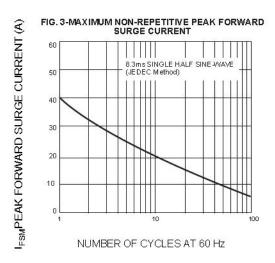


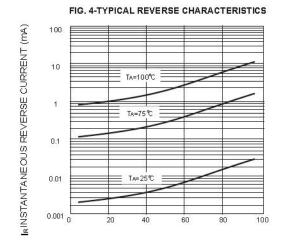


Ratings and Characteristics Curves

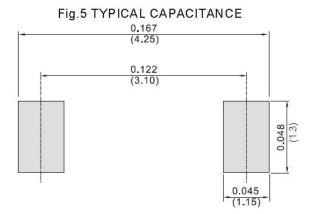








PERCENT OF RATED PEAK REVERSE VOLYAGE(%)



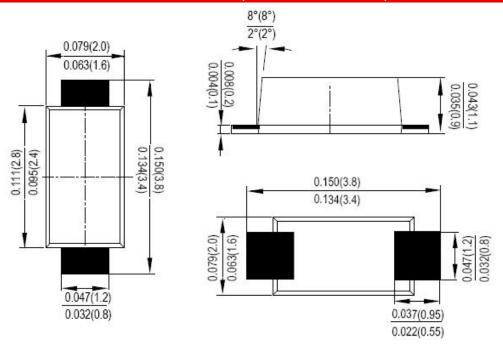
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Mechanical Dimensions SOD-123FL(Inches/Millimeters)



Ordering Information

Device	Package	Shipping			
DSS12U THRU DSS125U	SOD-123FL (Pb-Free)	3000pcs / reel			

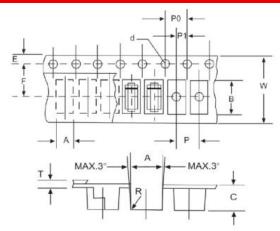
For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



D12U = Marking Code

Carrier Tape Specification SOD-123FL



SYMBOL	Millimeters				
STWIBOL	Min.	Max.			
Α	1.95	2.15			
В	3.85	4.05			
С	1.35	1.55			
d	1.50	1.60			
Е	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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