

# **DSS12 THRU DSS125**

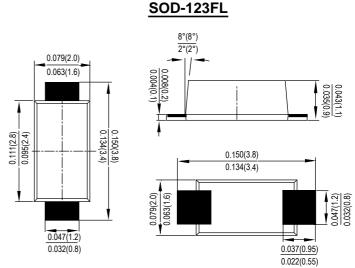
### SINGLE PHASE 1.0AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

### **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 <sup>o</sup>C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

### **Mechanical Data**

- · Case: SOD-123FL, molded plastic
- Terminals: plated leads solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes cathode end
- · Mounting position: Any



Dimensions in inches and (millimeters)

### **Maximum Ratings and Electrical Characteristics**

Rating at 25℃ ambient temperature unless otherwise specified.

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

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TYPE NUMBER	Code	D3312	D3313	D3514	D3515	D3516	D3516	D33110	D35115	D33120	D33125	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM											
	VRWM	20	30	40	50	60	80	100	150	200	250	V
	VDC											
RMS Reverse Voltage	VRMS	14	21	28	35	42	56	70	105	140	175	V
Average Rectified Output Current @T <sub>L</sub> =90°C	<b>İ</b> F(AV)	1.0									А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	30									А	
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l²t	3.735										A <sup>2</sup> s
Forward Voltage per element @IF=1.0A	VFM	0.55		0	.7 0.85		0.85	0.92		0.95	V	
Peak Reverse Current @TA =25℃ At Rated DC Blocking Voltage @TA =100 ℃		0.1 0.05										
	lR	10 5								mA		
Typical junction capacitance (NOTE 1)	Сл	110				80						pF
Operating junction temperature range	TJ	-55to+150									$^{\circ}$	
Operating and Storage Temperature Range	Тѕтс	-55to+150										$^{\circ}\!\mathbb{C}$

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

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FIG. 1- FORWARD CURRENT DERATING CURVE

1.0

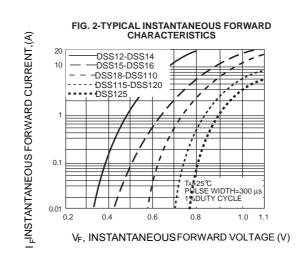
0.8

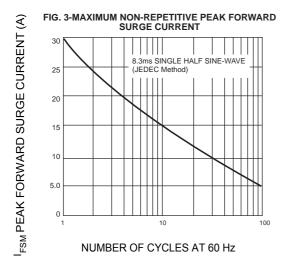
Single Phase
Half Wave 60Hz
Resistive or
inductive Load

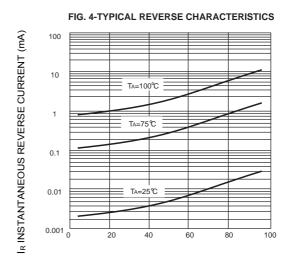
0.4

0.2

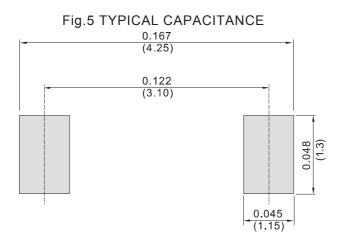
LEAD TEMPERATURE (°C)







PERCENT OF RATED PEAK REVERSE VOLYAGE(%)





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