

DSS32 THRU DSS325

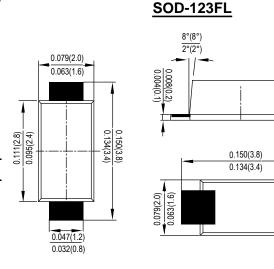
SINGLE PHASE 3.0AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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 °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)

0.037(0.95)

0.022(0.55)

Maximum Ratings and Electrical Characteristics

Rating at 25° C ambient temperature unless otherwise specified. Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

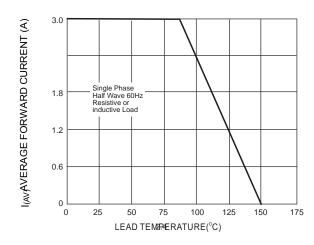
TYPE NUMBER	SYMBOL	DSS32	DSS33	DSS34	DSS35	DSS36	DSS38	DSS310	DSS315	DSS320	DSS325	
	Code	D32	D33	D34	D35	D36	D38	D310	D315	D320	D325	UNITS
Peak Repetitive Reverse Voltage	VRRM											
Working Peak Reverse Voltage	VRWM	20	30	40	50	60	80	100	150	200	250	V
DC Blocking Voltage	VDC											
RMS Reverse Voltage	VRMS	14	21	28	35	42	56	70	105	140	175	V
Average Rectified Output Current @T∟=90°C	F(AV)	3.0									А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Іғѕм	80									А	
ft Rating for Fusing (t < 8.3ms)	l ² t	26.560										A ² s
Forward Voltage per element @IF=3.0A	Vғм	0.55		C).7		0.85	0.9	92	0.95	V	
Peak Reverse Current @TA =25℃ At Rated DC Blocking Voltage @TA =100℃	lr	0.1					0.05				mA	
		10						5				ША
Operating junction temperature range	TJ		-55to+150							$^{\circ}$ C		
Operating and Storage Temperature Range	Тѕтс	-55to+150									$^{\circ}$	

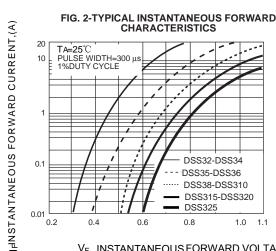
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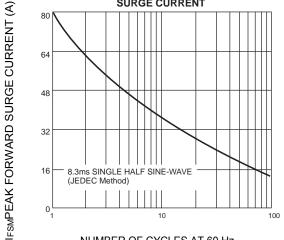
FIG. 1- FORWARD CURRENT DERATING CURVE





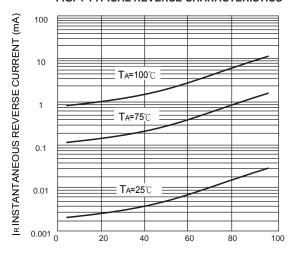
V_F, INSTANTANEOUS FORWARD VOLTAGE (V)





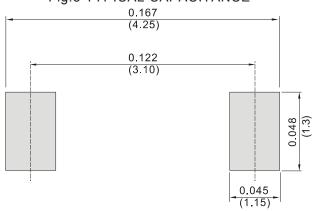
NUMBER OF CYCLES AT 60 Hz

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLYAGE(%)

Fig.5 TYPICAL CAPACITANCE





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