

DSS32 THRU DSS325

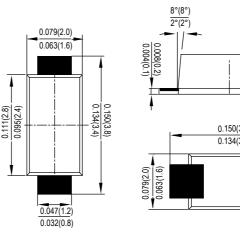
SINGLE PHASE 3.0AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

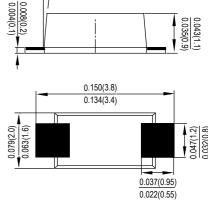
Features

- 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)

SOD-123FL

Maximum Ratings and Electrical Characteristics

Rating at 25 $\!\!\!\!\!^{\,\circ}_{\,\circ}$ 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	D3332	D33	D34	D3533	D36	D3336	D33310	D3315	D33320	D33325	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∟=90°C	F(AV)	3.0									Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	80								А		
ft Rating for Fusing (t < 8.3ms)	l²t	26.560									A ² s	
Forward Voltage per element @IF=3.0A	VFM	0.55 0.7				0.85	0.	92	0.95	V		
Peak Reverse Current @TA =25°C At Rated DC Blocking Voltage @TA =100 °C	lr	0.1 0.05								mA		
		10					5					
Typical Junction Capacitance (Note 1)	СЈ	110						70				pF
Typical thermal resistance (NOTE 2)	Reja	75									°C/W	
Operating junction temperature range	Тл	-55to+150									$^{\circ}$	
Operating and Storage Temperature Range	Тѕтс	-55to+150									$^{\circ}\!\mathbb{C}$	

Note:1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C.

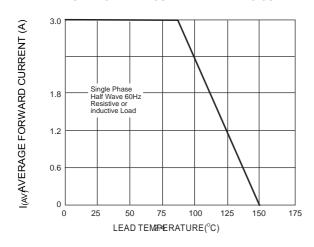
2. Thermal resistance from junction to ambient at 0.375" (9.5mm)lead length, P.C.B. mounted

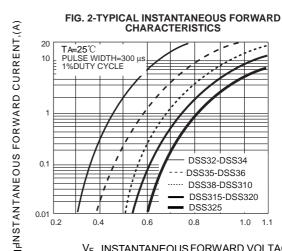
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FIG. 1- FORWARD CURRENT DERATING CURVE





V_F, INSTANTANEOUS FORWARD VOLTAGE (V)



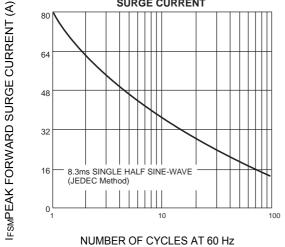
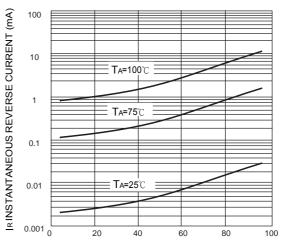
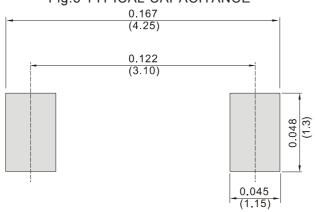


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLYAGE(%)

Fig.5 TYPICAL CAPACITANCE





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