

DSS32 THRU DSS320

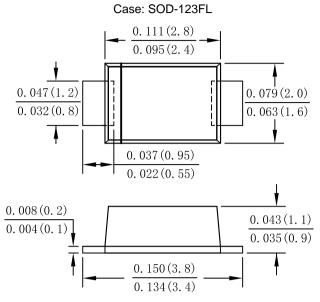
Single Phase 3.0AMP Surface Mount Schottky Barrier Rectifier

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)

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	UNITS	
	Code	D32	D33	D34	D35	D36	D38	D310	D315	D320		
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM	20	30	40	50	60	80	100	150	200		
	VRWM										V	
	VDC											
RMS Reverse Voltage	VRMS	14	21	28	35	42	56	70	105	140	V	
Average Rectified Output Current @T∟=90°C	IF(AV)	3.0								Α		
Non-Repetitive Peak Forward Surge @T _{j=25} ℃ Current 8.3ms Single half sine-wave@T _{j=125} ℃ Superimposed On Rated Load (JEDEC Method)	lгsм	80 64									A	
Non-Repetitive Peak Forward Surge @ ^T j=25 °C Current 1.0ms Single half sine-wave @ ^T j=125 °C Superimposed On Rated Load (JEDEC Method)	Ігѕм	160 128									Α	
10000 times of the wave surge current (time width 1ms, time interval 3s)	İFSM	60									Α	
Pt 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	0.9)2	V	
	Тур		0.52		0.0	65	0.	.80	8.0	35		
Peak Reverse Current @TA =25 ℃ At Rated DC Blocking Voltage @TA =100 ℃	l _R	0.1 0.05								mA		
	IK	10						5				
Typical Junction Capacitance (Note 1)	Сı	110				70				pF		
Typical Thermal Resistance	Reja	115						\mathbb{C}/\mathbb{M}				
Operating and Storage Temperature Range	T_J, T_{STG}	-55to+150									$^{\circ}\mathbb{C}$	

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

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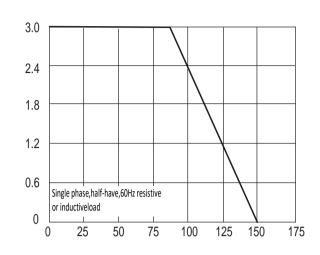


Average Forward Current (A)

IFSM, Peak Forward Surge Current (A)

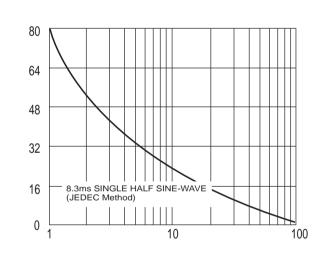
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Fig. 1 Typical Forward Current Derating Curve



T_L Lead Temperature(°C)

Fig. 3 Max Non-Repetitive Peak Fwd Surge Current



Number Of Cycles At 60 Hz

Fig.5 Typical Capacitance

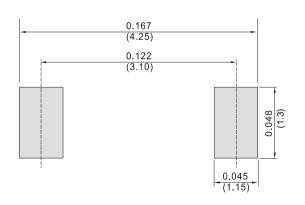
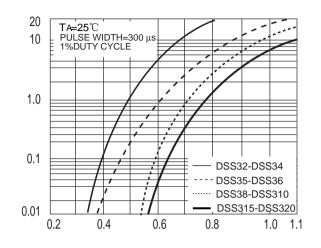


Fig. 2 Typical Instantaneous Forward Characteristics

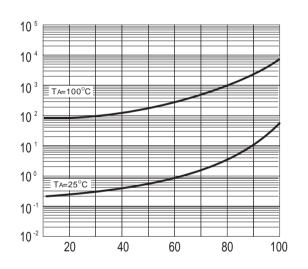
nstantaneous Forward Current (A)



V_F, Instantaneous Forward Voltage (V)

Fig.4 Typical Reverse Chracteristics

Instantaneous Reverse Current (uA)



Percent Of Rated Peak Reverse Voltage (%)

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