

DSS22U THRU DSS225U

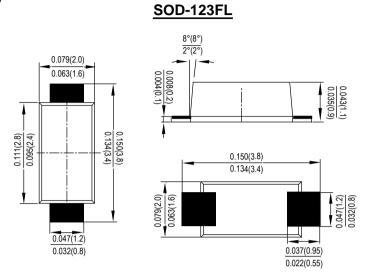
SINGLE PHASE 2.0AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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	DSS22U	DSS23U	DSS24U	DSS25U	DSS26U	DSS28U	DSS210U	DSS215U	DSS220U	DSS225U	LINITO
	Code	D22U	D23U	D24U	D25U	D26U	D28U	D210U	D215U	D220U	D225U	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 _L =90°C	I F(AV)	2.0								А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	60									А	
I ² t Rating for Fusing (t < 8.3ms)	l²t	14.940							A ² s			
Forward Voltage per element @IF=2.0A	V _{FM}	0.5		0	.67	0.8		0.90		0.92	V	
Peak Reverse Current @TA =25℃ At Rated DC Blocking Voltage @TA =100℃	lR	0.1 0.05										
		10 5									mA	
Typical junction capacitance (NOTE 1)	Сл	220			80						pF	
Operating junction temperature range	Тл	-55to+150									$^{\circ}$	
Operating and Storage Temperature Range	Тѕтс	-55to+150										$^{\circ}$

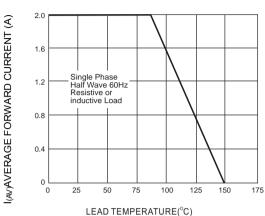
Note:1. Measured at 1MHZ and applied reverse voltage of 4.0V D.C.

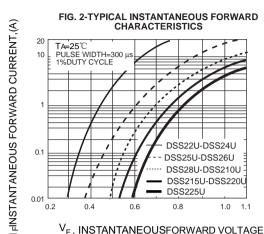
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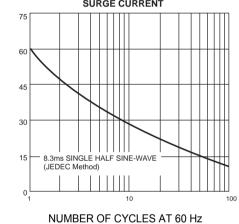
FIG. 1- FORWARD CURRENT DERATING CURVE



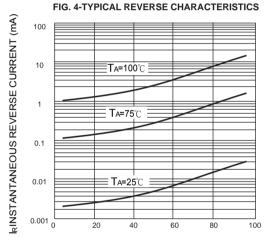


 V_{F} , INSTANTANEOUSFORWARD VOLTAGE (V)

FIG. 3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

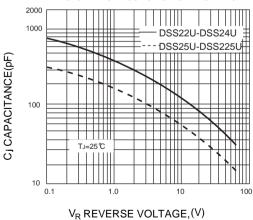


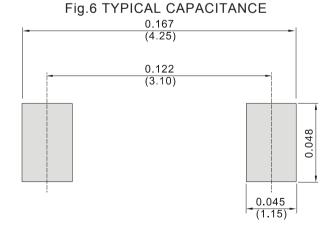
IFSM PEAK FORWARD SURGE CURRENT (A)



PERCENT OF RATED PEAK REVERSE VOLYAGE(%)









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