



DSS22U THRU DSS225U

SINGLE PHASE 2.0AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

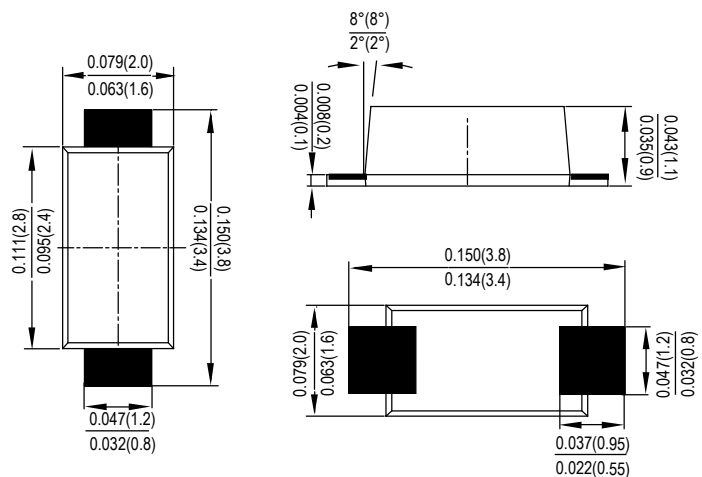
Features

- 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

SOD-123FL



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	UNITS	
	Code	D22U	D23U	D24U	D25U	D26U	D28U	D210U	D215U	D220U	D225U		
Peak Repetitive Reverse Voltage	V_{RRM}											V	
Working Peak Reverse Voltage	V_{RWM}	20	30	40	50	60	80	100	150	200	250		
DC Blocking Voltage	V_{DC}												
RMS Reverse Voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	175	V	
Average Rectified Output Current @ $T_A=90^\circ\text{C}$	I_o	2.0										A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	60										A	
Forward Voltage per element @ $I_F=2.0\text{A}$	V_{FM}	0.5			0.67		0.8		0.90		0.92	V	
Peak Reverse Current @ $T_A=25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A=100^\circ\text{C}$	I_R	0.1					0.05					mA	
		10					5						
Typical junction capacitance (NOTE 1)	C_J	220				80							pF
Operating junction temperature range	T_J	-55to+150										°C	
Operating and Storage Temperature Range	T_{STG}	-55to+150										°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

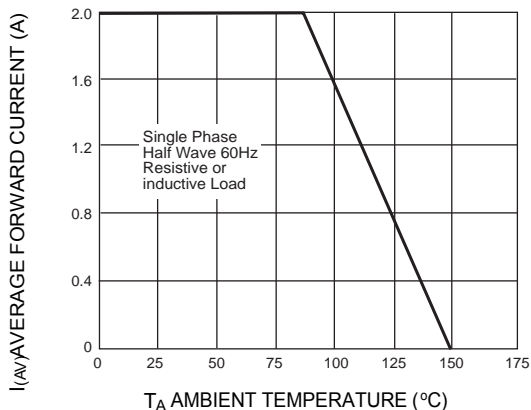


FIG. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

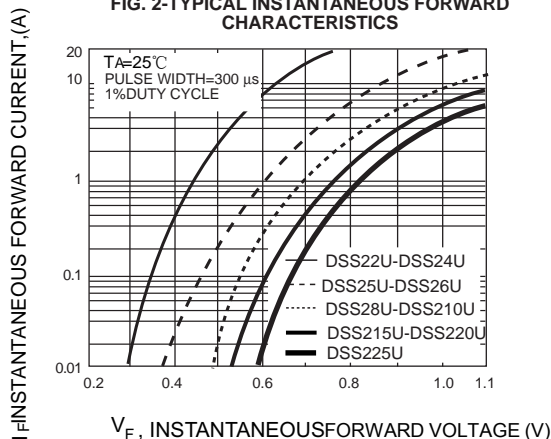


FIG. 3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

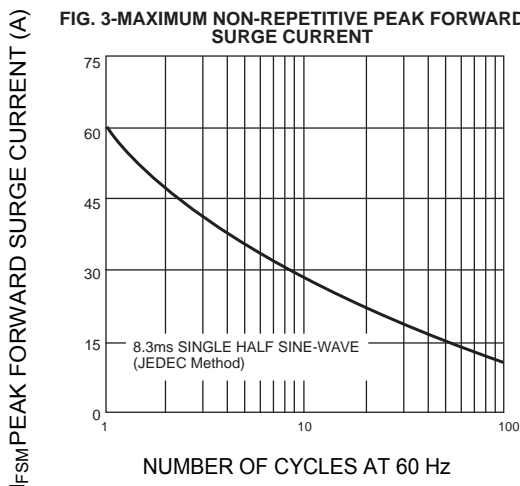


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

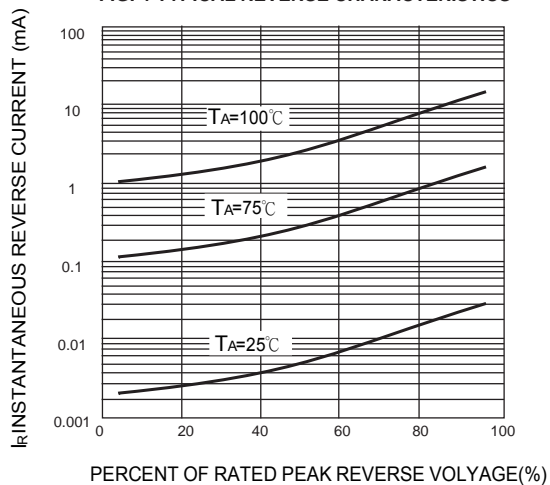


FIG. 5-TYPICAL JUNCTION CAPACITANCE

