

# DSS22 THRU DSS225

SINGLE PHASE 2.0AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

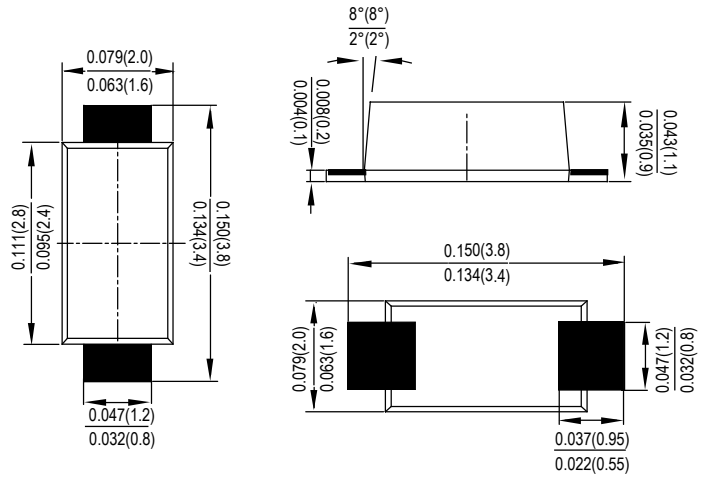
## Features

- 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	DSS22	DSS23	DSS24	DSS25	DSS26	DSS28	DSS210	DSS215	DSS220	DSS225	UNITS	
	Code	D22	D23	D24	D25	D26	D28	D210	D215	D220	D225		
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub>											V	
	V <sub>RWM</sub>	20	30	40	50	60	80	100	150	200	250		
	V <sub>DC</sub>												
RMS Reverse Voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	105	140	175	V	
Average Rectified Output Current @T <sub>A</sub> = 90°C	I <sub>O</sub>	2.0										A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	50										A	
Forward Voltage per element @I <sub>F</sub> = 2.0A	V <sub>FM</sub>	0.55			0.7		0.85		0.92		0.95	V	
Peak Reverse Current @T <sub>A</sub> = 25°C At Rated DC Blocking Voltage @T <sub>A</sub> = 100°C	I <sub>R</sub>	0.1					0.05						mA
		10					5						
Typical junction capacitance (NOTE 1)	C <sub>J</sub>	220				80							pF
Operating junction temperature range	T <sub>J</sub>	-55to+150										°C	
Operating and Storage Temperature Range	T <sub>STG</sub>	-55to+150										°C	

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

FIG. 1- FORWARD CURRENT DERATING CURVE

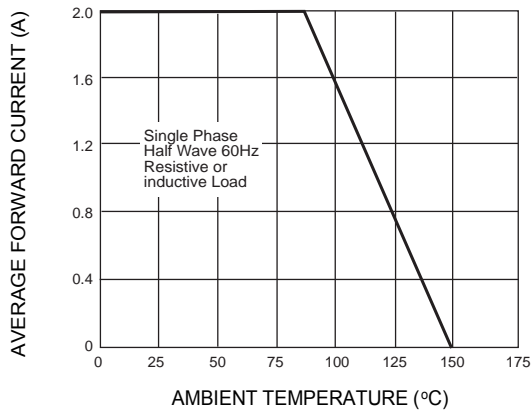


FIG. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

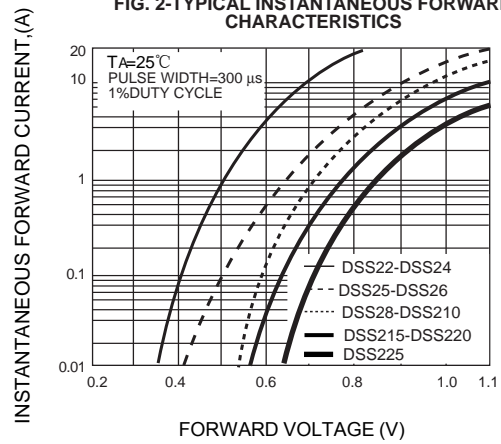


FIG. 3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

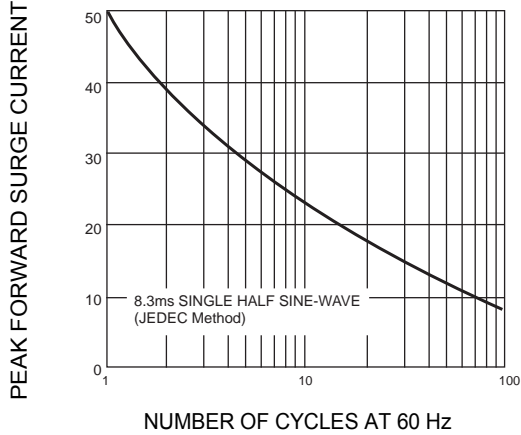


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

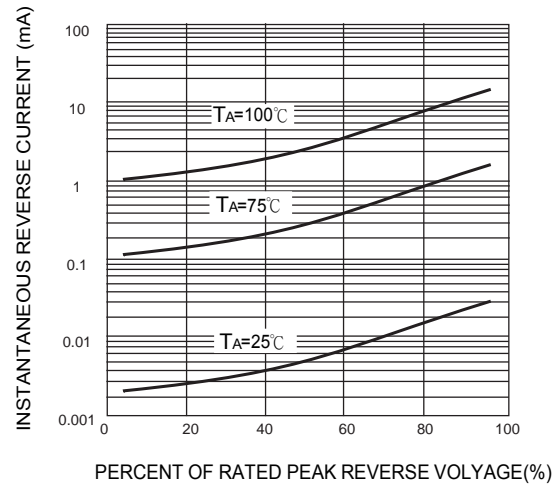


FIG. 5-TYPICAL JUNCTION CAPACITANCE

