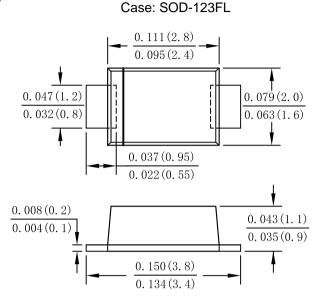


# **DSS22U THRU DSS220U**

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



Dimensions in inches and (millimeters)

### **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

### **Maximum Ratings and Electrical Characteristics**

Rating at 25℃ 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	UNITS
	Code	D22U	D23U	D24U	D25U	D26U	D28U	D210U	D215U	D220U	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM										
	VRWM	20	30	40	50	60	80	100	150	200	V
	VDC										
RMS Reverse Voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	105	140	V
Average Rectified Output Current @T <sub>L</sub> =90°C	<b>I</b> 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 <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l²t	14.940								A <sup>2</sup> S	
Forward Voltage per element @IF=2.0A	VFM	0.5			0	.67		8.0	0.90		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)	CJ	100 50							pF		
Typical thermal resistance (NOTE 2)	Reja	75								°C/W	
Operating junction temperature range	Тл	-55to+150								$^{\circ}$ C	
Operating and Storage Temperature Range	Tstg	-55to+150								$^{\circ}$	

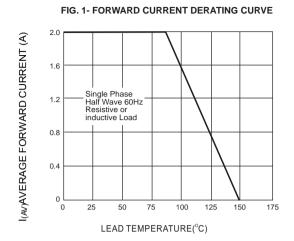
Note:1. Measured at 1MHZ and applied reverse voltage of 4.0V D.C.

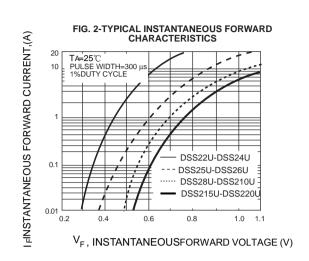
2. Device mounted on FR-4 substrate, 1"\*1", 2oz, single-sided, PC boards with 0.1"\*0.15" copper pad.

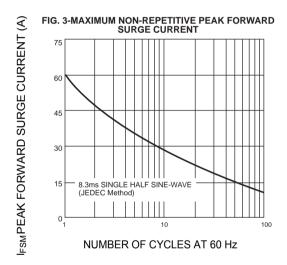
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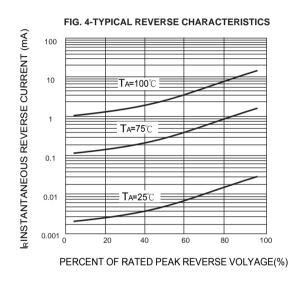


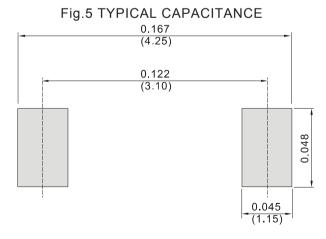
# **DSS22U THRU DSS220U**











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## DSS22U THRU DSS220U

Single Phase 2.0AMP Surface Mount Schottky Barrier Rectifier

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