

### Description

The DS22W~DS220W is schottky barrier diode, SOD-123FL plastic package.

### Applications

- General purpose.

### Features

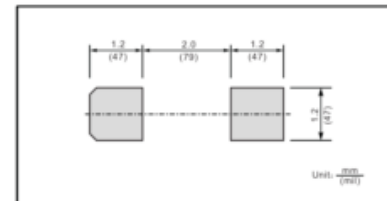
- Low power loss
- High efficiency
- High forward surge current capability
- For use in low voltage
- High frequency inverters
- And polarity protection applications
- For surface mounted applications
- Halogen free product

### Equivalent Circuit & Pinning



PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad size



### Marking

- See Marking Instructions.

**Maximum Rating & Thermal Characteristics(Ta=25 °C)**

Parameter	Symbol	Rating								Unit
		DS22W	DS24W	DS26W	DS28W	DS210W	DS212W	DS215W	DS220W	
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	40	60	80	100	120	150	200	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	2.0								A
Peak Forward Surge Current,8.3ms Single Half sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	50				40				A
Typical Junction Capacitance <sup>1)</sup>	C <sub>i</sub>	220		80						pF
Operating Junction Temperature Range	T <sub>j</sub>	-55~+125								°C
Storage Temperature Range	T <sub>stg</sub>	-55~+150								°C

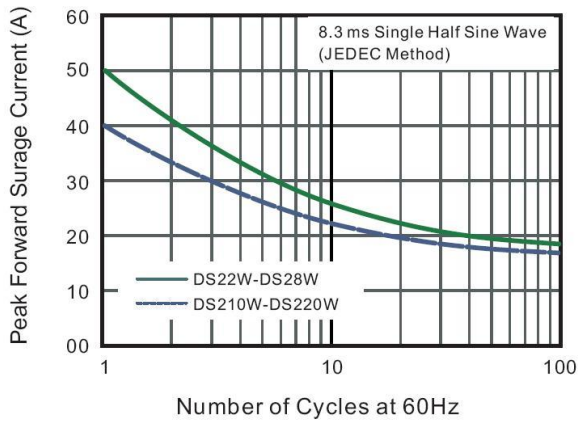
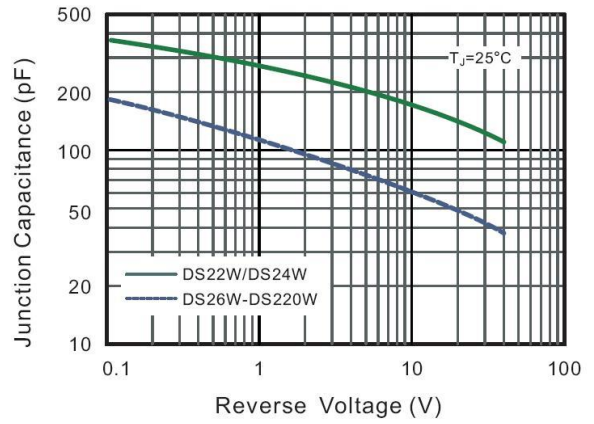
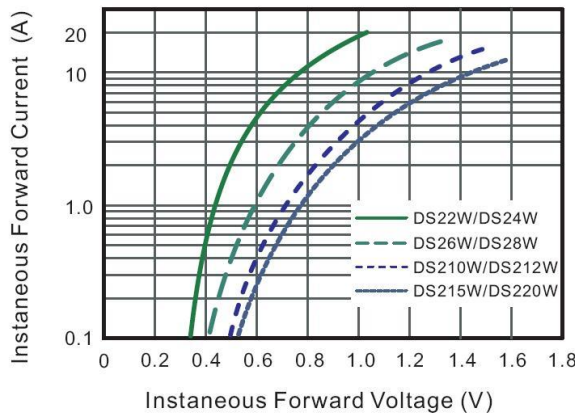
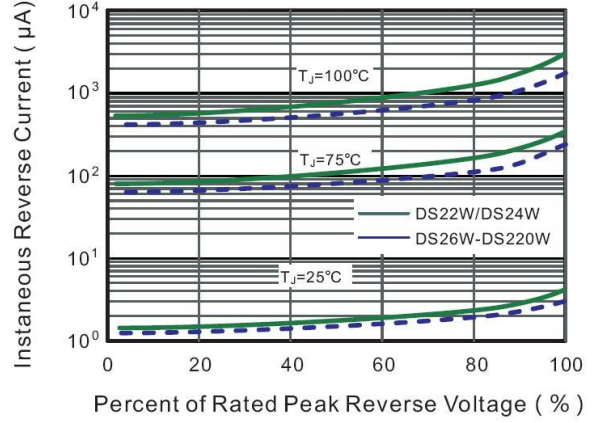
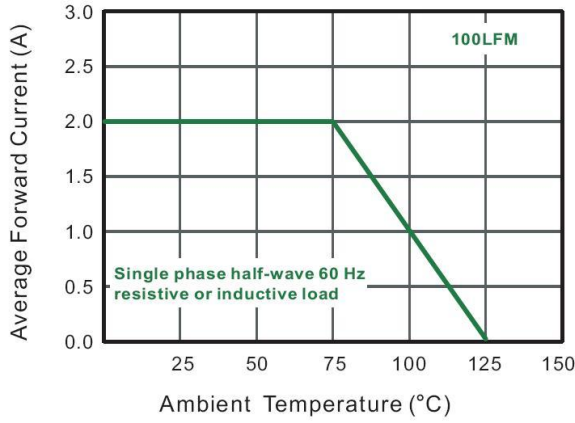
Note:

1) Measured at 1MHz and applied reverse voltage of 4 V D.C.

**Electrical Characteristics(Ta=25 °C)**

Parameter	Symbol	Test Conditions	Rating							Unit	
			DS22W	DS24W	DS26W	DS28W	DS210W	DS212W	DS215W		DS220W
Max Instantaneous Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =2.0A	0.55		0.70		0.85		0.95		V
Maximum DC Reverse Current at Rated DC Reverse Voltage	I <sub>R</sub>	T <sub>a</sub> =25°C	0.5			0.3				mA	
		T <sub>a</sub> =100°C	5.0			5.0					

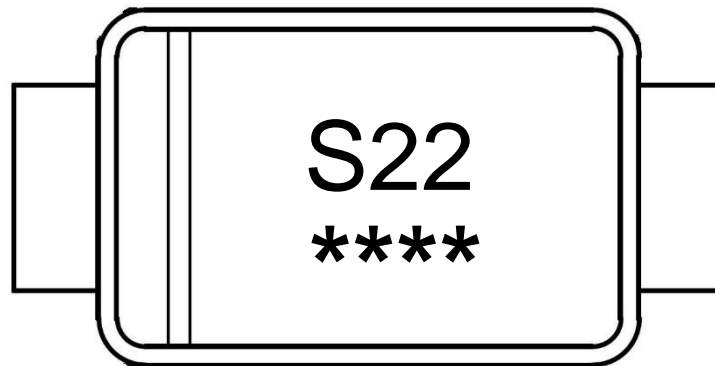
Electrical Characteristic Curve



Marking instructions

Marking

Type number	Marking code
DS22W	S22
DS24W	S24
DS26W	S26
DS28W	S28
DS210W	S210
DS212W	S212
DS215W	S215
DS220W	S220



Note:

S22: Product Type Code

\*\*\*\*: Lot No. Code, The 1st \* means:YM Code, The last 3 \* means:little Lot No Code

Packaging SPEC.

Package Type	Units					Dimension (unit: mm <sup>3</sup> )		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOD-123FL	3000	8	24000	5	120000	7" x11	185X180X105	390X385X205

Package Outline Dimensions

SOD-123FL

