

Surface Mount Schottky Barrier Rectifier
Reverse Voltage - 20 to 200 V
Forward Current - 2.0A
Features

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View

Marking Code: DS22W ---S22
 DS24W ---S24
 DS26W ---S26
 DS28W ---S28
 DS210W ---S210
 DS212W ---S212
 DS215W ---S215
 DS220W ---S220

Weight : 17mg , 0.0006 oz

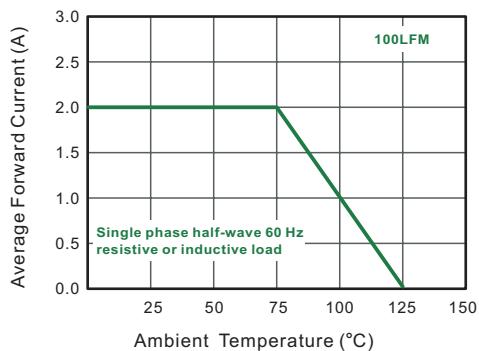
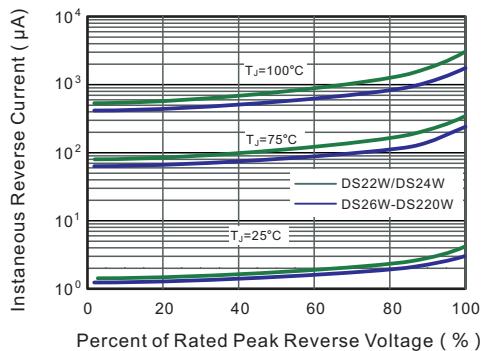
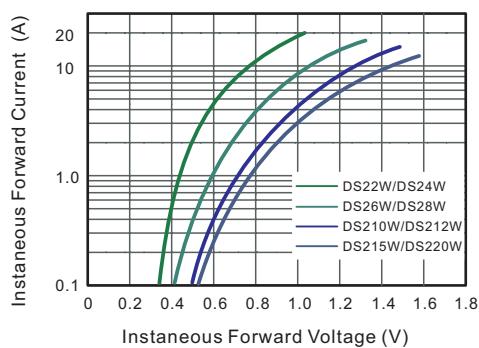
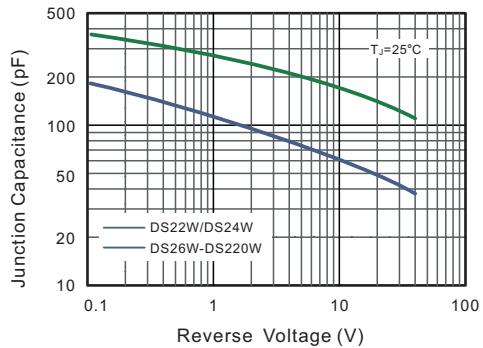
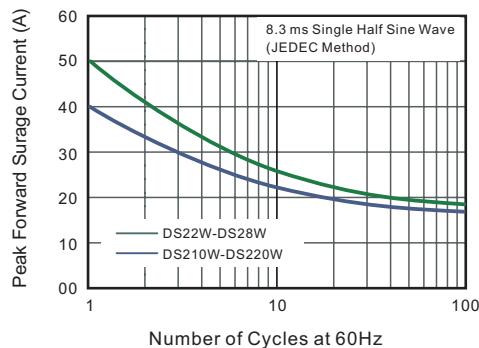
Simplified outline SOD-123FL and symbol

Absolute Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

Parameter	Symbols	DS22W	DS24W	DS26W	DS28W	DS210W	DS212W	DS215W	DS220W	Units								
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	40	60	80	100	120	150	200	V								
Maximum RMS voltage	V _{RMS}	14	28	42	56	70	84	105	140	V								
Maximum DC Blocking Voltage	V _{DC}	20	40	60	80	100	120	150	200	V								
Maximum Average Forward Rectified Current	I _{F(AV)}	2.0								A								
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50				40				A								
Max Instantaneous Forward Voltage at 2A	V _F	0.55		0.70		0.85		0.95		V								
Maximum DC Reverse Current T _a = 25°C at Rated DC Reverse Voltage T _a = 100°C	I _R	0.5 10		0.3 5						mA								
Typical Junction Capacitance ¹⁾	C _j	220		80						pF								
Operating Junction Temperature Range	T _j	-55 ~ +125								°C								
Storage Temperature Range	T _{stg}	-55 ~ +150								°C								

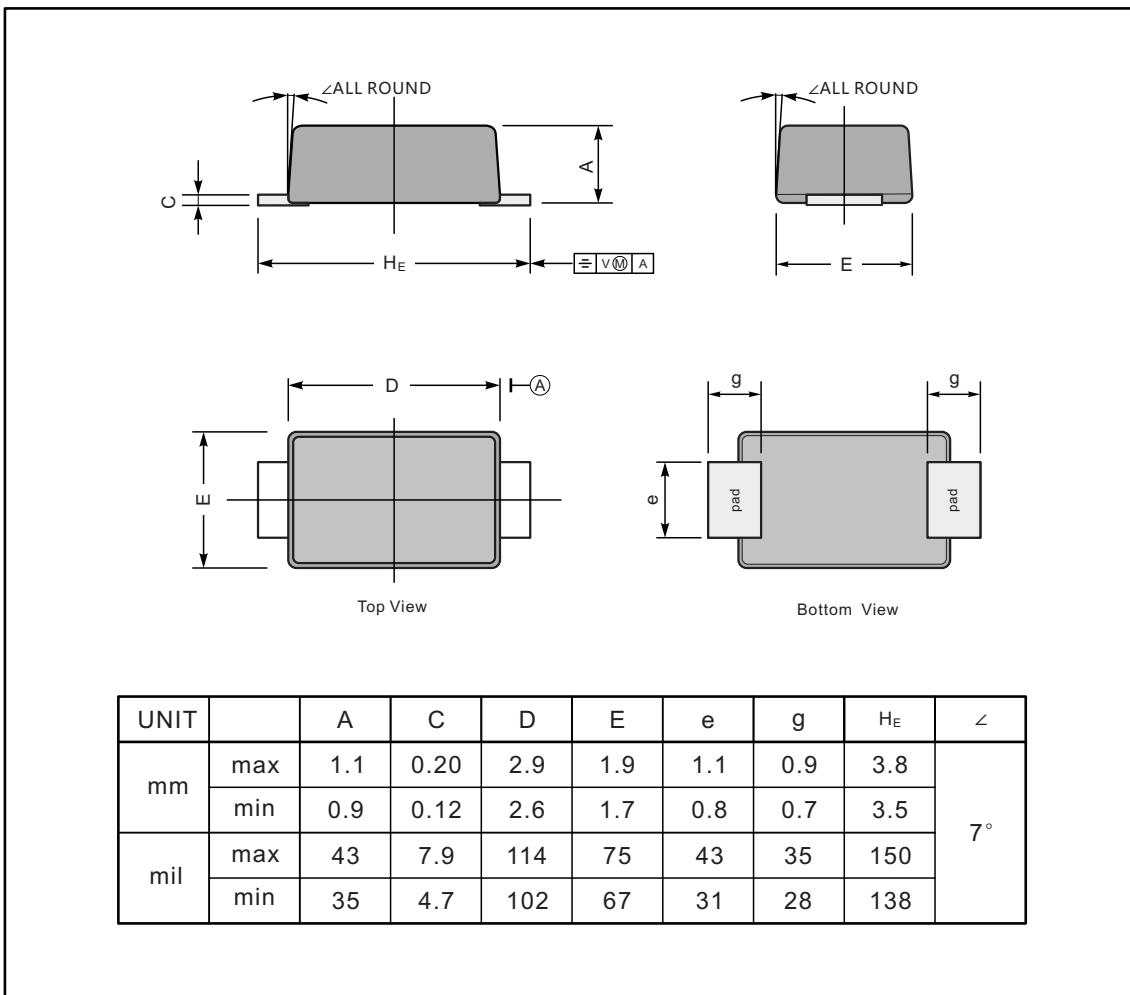
¹⁾ Measured at 1MHz and applied reverse voltage of 4 V D.C.

Fig.1 Forward Current Derating Curve

Fig.2 Typical Reverse Characteristics

Fig.3 Typical Forward Characteristic

Fig.4 Typical Junction Capacitance

Fig.5 Maximum Non-Repetitive Peak Forward Surge Current


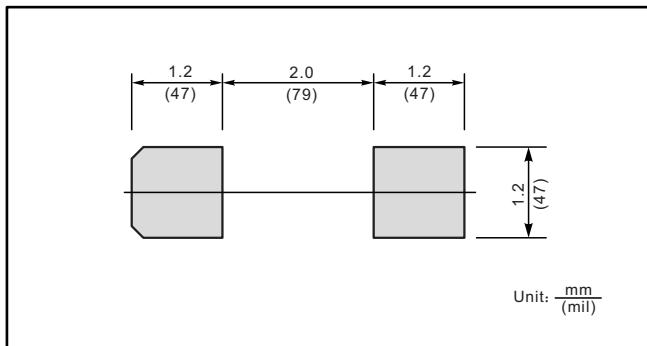
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD123FL



The recommended mounting pad size



Marking

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