

DS22 thru DS120 SOD-123FL

SCHOTTKY BARRIER DIODE

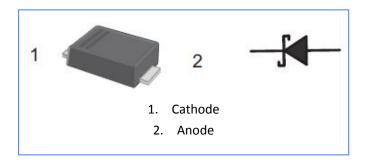
Features

- 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

Mechanical Data

Case: SOD-123FL

Terminals: Solderable per MIL-STD-750, Method 2026



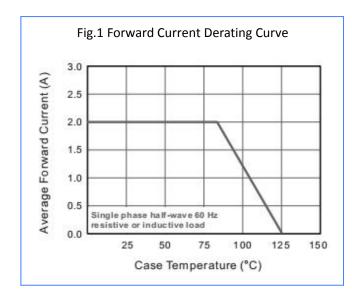
Absolute Maximum Ratings and Electrical characteristics

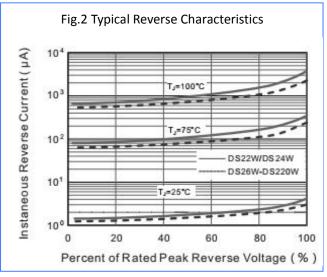
Ratings at 25° C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

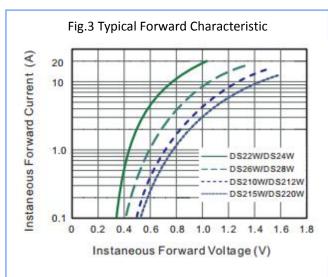
Parameter	Symbols	DS22	DS24	DS26	DS28	DS210	DS212	DS215	DS220	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	40	60	80	100	120	150	200	V
Maximum RMS voltage	V _{RMS}	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}	2								A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	50								A
Max Instantaneous Forward Voltage at 1 A	V _F	0.55		0.70		0.85		0.90		V
Maximum DC Reverse Current Ta=25°C at Rated DC Reverse Voltage Ta=100°C	I _R		0.5 5	l	0.3 3					mA
Typical Junction Capacitance ¹	C _j	220			80					pF
Typical Thermal Resistance ²	R _{θJA}	85							°C/W	
Operating Junction Temperature Range	Tj	-55 ~ +125							$^{\circ}$	
Storage Temperature Range	T _{stg}	-55 ~ +150							$^{\circ}$	

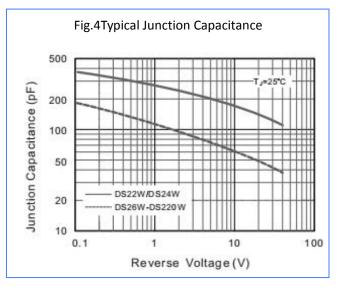
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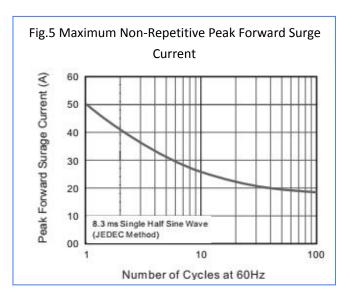
- 1. Measured at 1 MHz and applied reverse voltage of 4 V D.C
- 2. P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

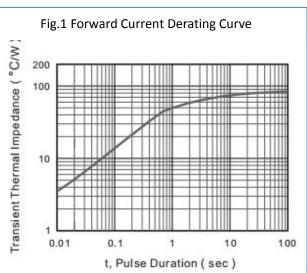








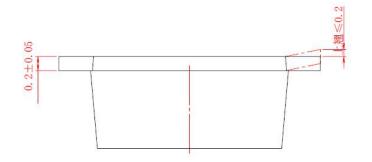


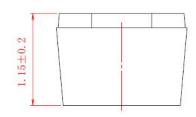


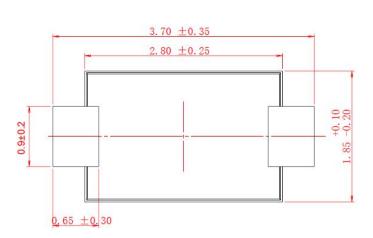
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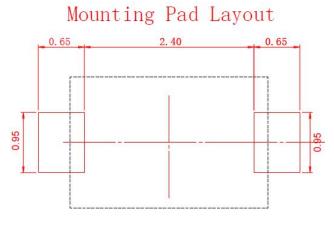
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Package Outline SOD-123FL









Disclaimer

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

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