

DS12 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

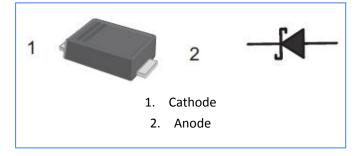
Absolute Maximum Ratings and Electrical characteristics

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	DS12	DS14	DS16	DS18	DS110	DS112	DS115	DS120	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)}	1							А	
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	25								A
Max Instantaneous Forward Voltage at 1 A	VF	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 1			0.2 5		0.1 2		mA
Typical Junction Capacitance ¹	Cj	110		<u> </u>			80			pF
Typical Thermal Resistance ²	R _{0JA}	100								°C/W
Operating Junction Temperature Range	Tj	-55 ~ +125								°C
Storage Temperature Range	T _{stg}	-55 ~ +150								°C

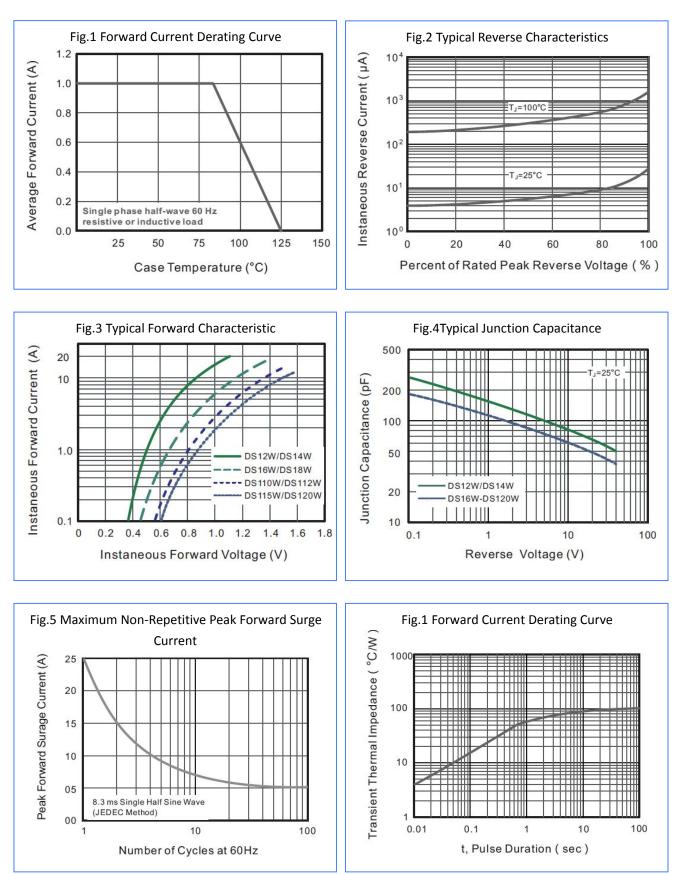
1. Measured at 1 MHz and applied reverse voltage of 4 V D.C

2. P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.





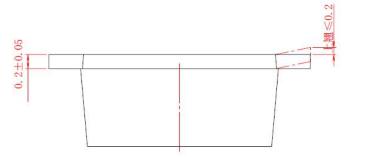
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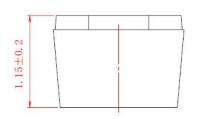




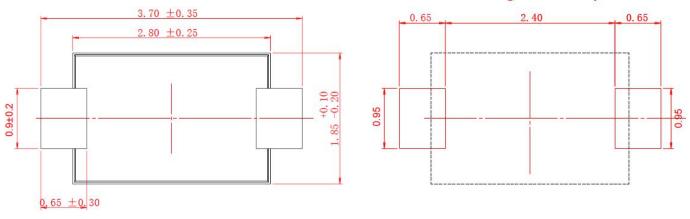
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Package Outline SOD-123FL





Mounting Pad Layout



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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