

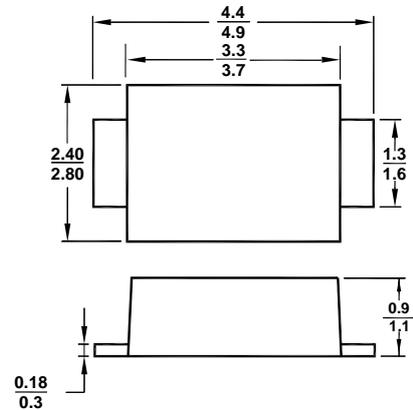
SDS22F THRU SDS220F

Surface Mount Schottky Barrier Rectifier
Reverse Voltage - 20 to 200 V
Forward Current - 2 A

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

SMAF



All Dimensions in mm

Maximum Ratings and Electrical Characteristics

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

Parameter	Symbols	SDS22F	SDS24F	SDS26F	SDS28F	SDS210F	SDS212F	SDS215F	SDS220F	Unit
	Marking	SS22	SS24	SS26	SS28	SS210	SS212	SS215	SS220	-
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 8.3 ms Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	50				40				A
Maximum Instantaneous Forward Voltage at 2 A	V_F	0.55		0.7		0.85		0.95		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	0.1		0.03		5				mA
		10								
Typical Junction Capacitance ¹⁾	C_j	220		80						pF
Operating Junction Temperature Range	T_j	- 55 to + 125								°C
Storage Temperature Range	T_{stg}	- 65 to + 150								°C

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

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ISO14001 : 2004 Certificate No. 121505007
 ISO 9001 : 2008 Certificate No. 50114012
 OHSAS 18001 : 2007 Certificate No. 05191508008
 IECQ QC 080000 Certificate No. E2411000741M2

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Fig.1 Forward Current Derating Curve

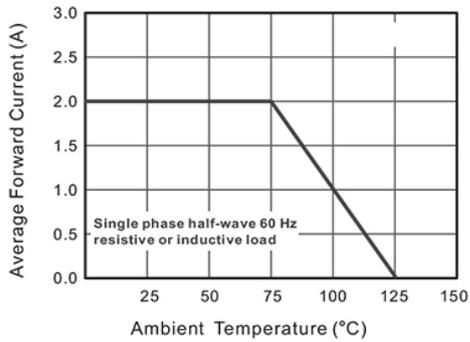


Fig.2 Typical Reverse Characteristics

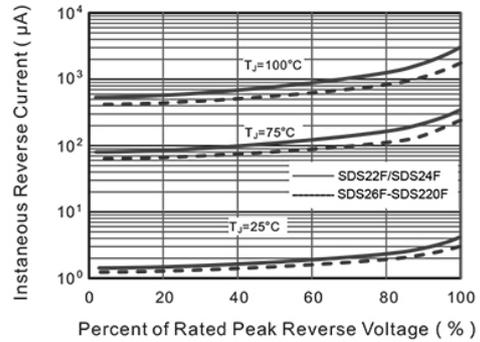


Fig.3 Typical Forward Characteristic

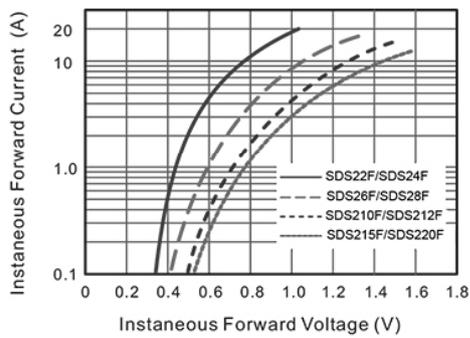


Fig.4 Typical Junction Capacitance

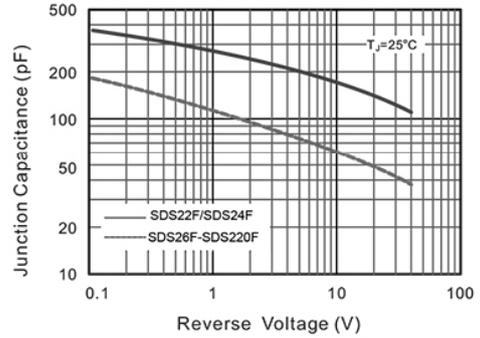
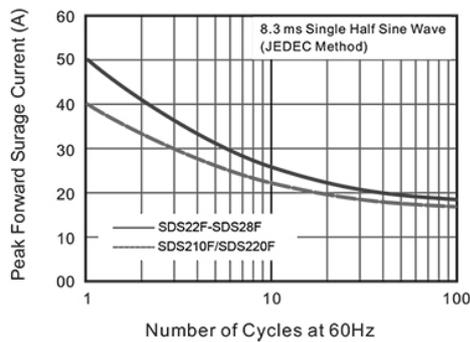


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



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