



RoHS
COMPLIANT



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

MECHANICAL DATA

- Case: SMA
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 60mg / 0.0021oz

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View

Marking Code: SS22~SS220

Simplified outline SMA 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 %

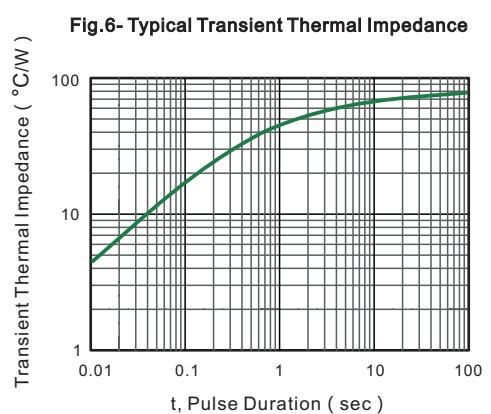
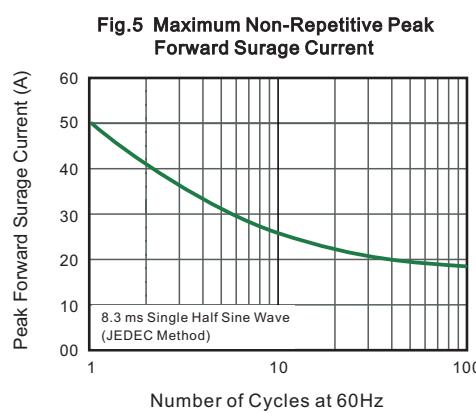
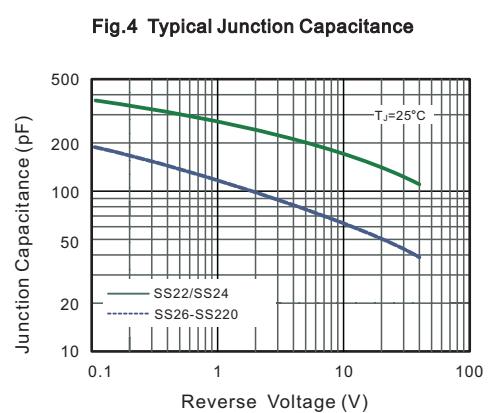
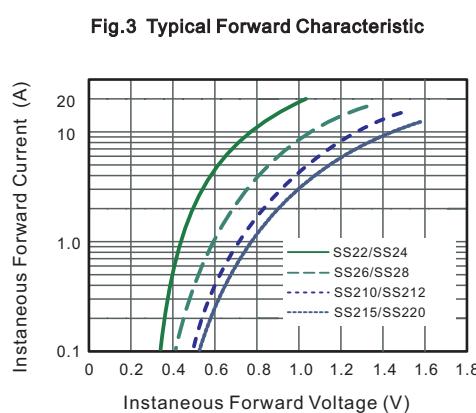
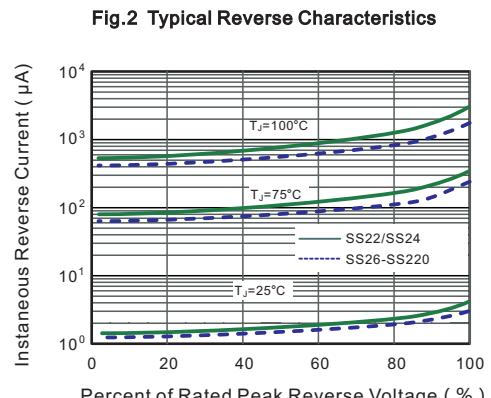
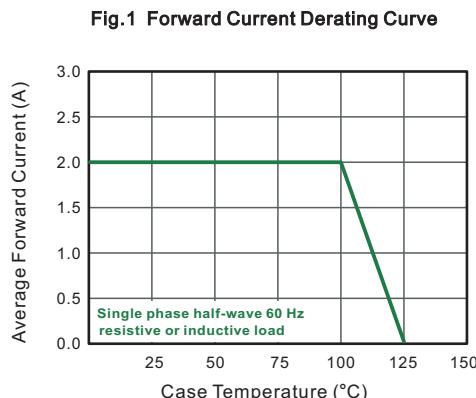
Parameter	Symbols	SS22K	SS24K	SS26K	SS28K	SS210K	SS212K	SS215K	SS220K	Units						
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	120	150	200	V						
Maximum RMS voltage	V_{RMS}	14	28	42	56	70	84	105	140	V						
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	120	150	200	V						
Maximum 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								A						
Max Instantaneous Forward Voltage at 2 A	V_F	0.55		0.70		0.85		0.95		V						
Maximum DC Reverse Current $T_a = 25^\circ C$ at Rated DC Reverse Voltage $T_a = 100^\circ C$	I_R	0.5 5			0.3 3											
Typical Junction Capacitance ⁽¹⁾	C_j	220		80						pF						
Typical Thermal Resistance ⁽²⁾	$R_{\theta JA}$	80								°C/W						
Operating Junction Temperature Range	T_j	-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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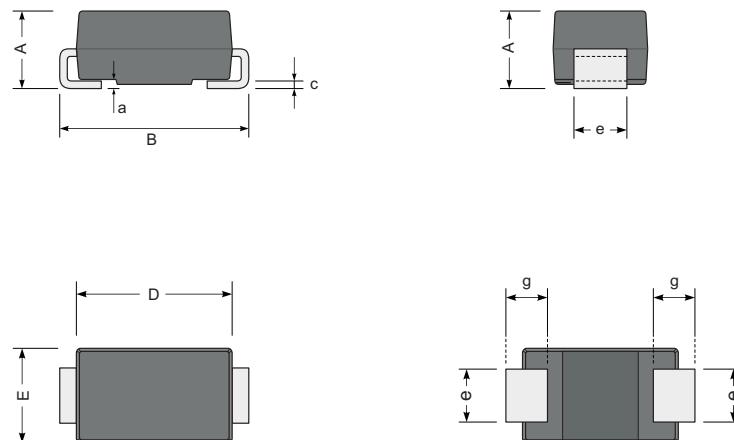




PACKAGE OUTLINE

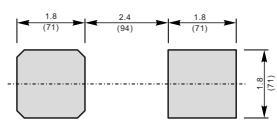
Plastic surface mounted package; 2 leads

SMAK



UNIT		A	D	E	B	c	e	g	a
mm	max	2.2	4.5	2.8	5.3	0.31	1.6	1.5	0.3
	min	1.9	4.0	2.4	4.8	0.15	1.3	0.9	
mil	max	87	181	110	209	12	63	59	12
	min	75	157	94	189	6	51	35	

The recommended mounting pad size



Unit : $\frac{\text{mm}}{(\text{mil})}$

Marking

Type number	Marking code
SS22K	SS22K
SS24K	SS24K
SS26K	SS26K
SS28K	SS28K
SS210K	SS210K
SS212K	SS212K
SS215	SS215K
SS220K	SS220K