Surface Mount Schottky Barrier Rectifier Reverse Voltage - 100 V Forward Current - 3.0A

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

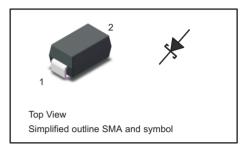
· Case: SMA

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

• Approx. Weight: 60mg / 0.0021oz

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



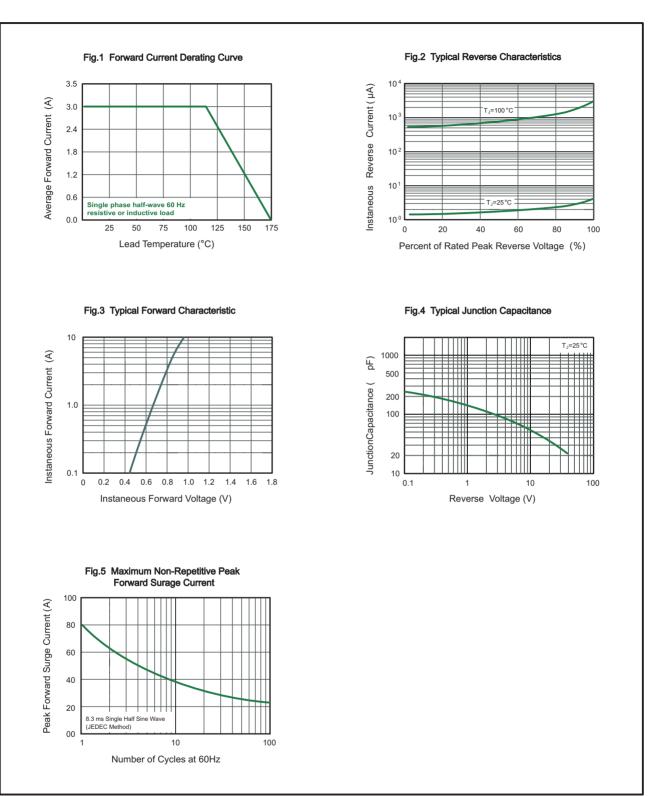
Absolute Maximum Ratings and Electrical characteristics

Ratings at $25\,^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by $20\,\%$

Parameter	Symbols	SS310	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS voltage	V _{RMS}	70	V
Maximum DC Blocking Voltage	V _{DC}	100	V
Maximum Average Forward Rectified Current	I _{F(AV)}	3.0	А
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	80	А
Max Instantaneous Forward Voltage at 3 A	V _F	0.85	V
Maximum DC Reverse Current $T_a = 25^{\circ}C$ at Rated DC Reverse Voltage $T_a = 100^{\circ}C$	I _R	0.3 3	mA
Typical Junction Capacitance (1)	C _j	85	pF
Typical Thermal Resistance (2)	R _{0JA} R _{0JL}	32 15	°C/W
Operating Junction Temperature Range	Tj	-55 ~ + 175	°C
Storage Temperature Range	T _{stg}	-55 ~ +175	°C

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

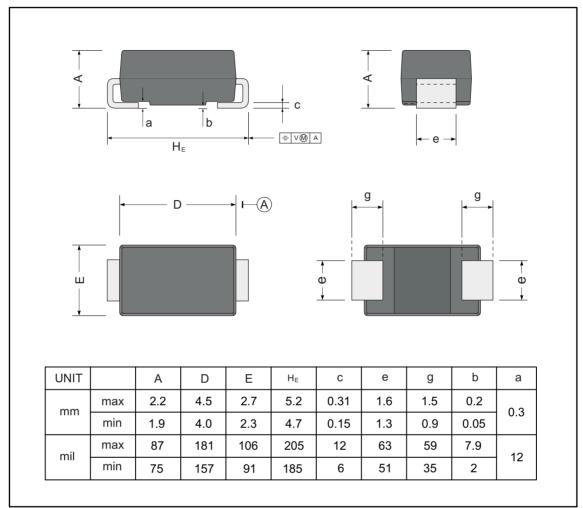
⁽²⁾ P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



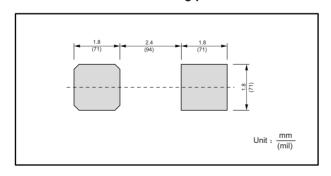
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMA



The recommended mounting pad size



Marking

Type number	Marking code		
SS310	SS310		

文件履历表

序号	制/修订日期	生效日期	版次	修订内容	变更原因	制/修订人	备注
01	2023. 2. 3	2023. 2. 5	Rev 1.1	初版制定	/	郭金铮	

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