SS22 THRU SS220

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER Reverse Voltage - 20 to 100 Volts Forward Current - 2.0 Amperes

Surface Mount Schottky Barrier Rectifier Reverse Voltage - 20 to 200V 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 : SMB
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.055g / 0.002oz

Absolute Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load,

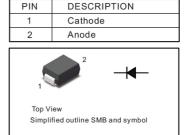
Parameter	Symbols	SS22B	SS24B	SS26B	SS28B	SS210B	SS212B	SS215B	SS220B	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	40	60	80	100	120	150	200	V
Maximum RMS voltage	V _{RMS}	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}	2.0						А		
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	
$\label{eq:maximum} \begin{array}{ll} Maximum DC Reverse Current & T_a = 25^\circ C \\ at Rated DC Reverse Voltage & T_a = 100^\circ C \end{array}$	I _R	0.5 0.3 5 3				mA				
Typical Junction Capacitance ⁽¹⁾	Cj	220 110				pF				
Typical Thermal Resistance ⁽²⁾	$R_{\theta JA}$	60						°C/W		
Operating Junction Temperature Range	Тј	-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) copport and around

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PINNING

PIN



for capacitive load, derate by 20 %



RATINGS AND CHARACTERISTIC CURVES SS22 THRU SS220

Fig.1 Forward Current Derating Curve

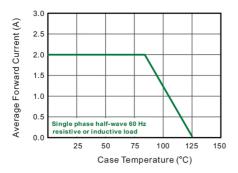


Fig.2 Typical Reverse Characteristics

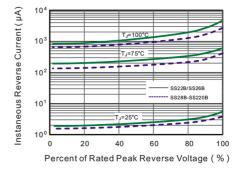


Fig.3 Typical Forward Characteristic

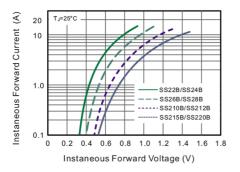


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

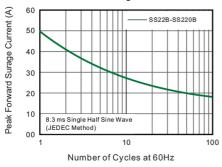


Fig.4 Typical Junction Capacitance

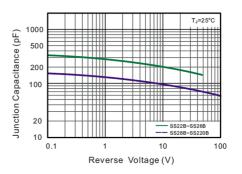
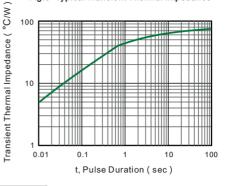


Fig.6- Typical Transient Thermal Impedance



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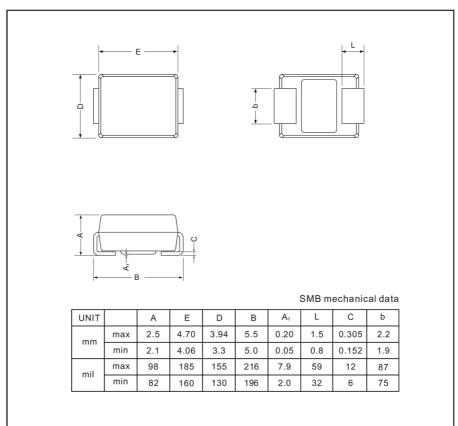


RATINGS AND CHARACTERISTIC CURVES SS22 THRU SS220

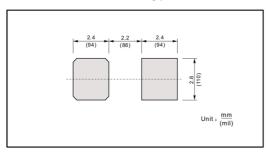
SMB

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads



The recommended mounting pad size



Marking

Type number	Marking code				
SS22B	SS22				
SS24B	SS24				
SS26B	SS26				
SS28B	SS28				
SS210B	SS210				
SS212B	SS212				
SS215B	SS215				
SS220B	SS220				

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>>RCD(达标电子)