

SS32A-SS3100A

Surface Mount Schottky Barrier Rectifiers

REVERSE VOLTAGE: 20 - 100 V

Features

- Guarding protection
- Low forward voltage
- Reverse energy tested
- High current capability
- Extremely low thermal resistance
- RoHS Compliant package

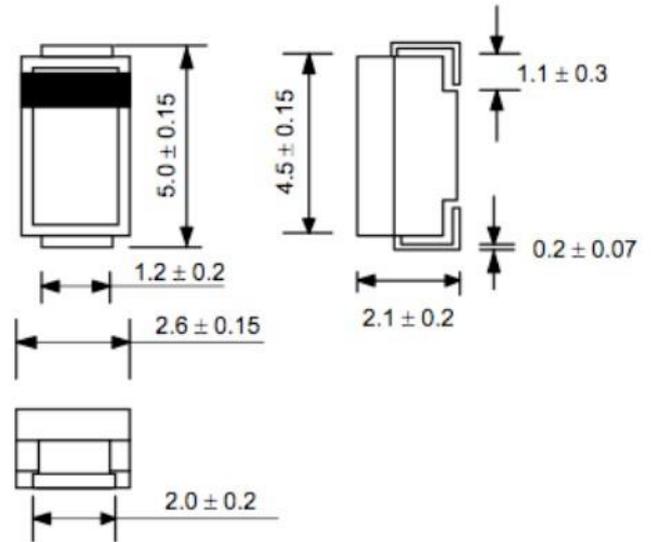
Mechanical Data

- Case: SMA Molded plastic
- Epoxy: UL94V-O rate flame retardant
- Lead: Lead Formed for Surface Mount
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.065 gram

Packing & Order Information

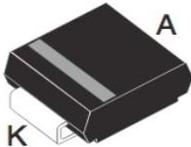
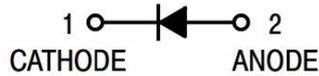
5,000/Reel

SMA (DO-214AC)



Dimensions in millimeters

Graphic symbol



RoHS
COMPLIANT

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

		SS32A	SS33A	SS34A	SS35A	SS36A	SS38A	SS39A	SS310A	Unit
Device marking code		SS32A	SS33A	SS34A	SS35A	SS36A	SS38A	SS39A	SS310A	
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	90	100	V
Working peak reverse voltage	V_{RWS}	14	21	28	35	42	56	63	70	V
Maximum DC blocking	V_{DC}	20	30	40	50	60	80	90	100	V
Maximum average forward rectified current at $T_L=90^\circ\text{C}$	$I_{F(AV)}$	3.0								A

SS32A-SS3100A

Surface Mount Schottky Barrier Rectifiers

REVERSE VOLTAGE: 20 - 100 V

Ratings at 25°C ambient temperature unless otherwise specified

		SS32A	SS33A	SS34A	SS35A	SS36A	SS38A	SS39A	SS310A	Unit
Device marking code		SS32A	SS33A	SS34A	SS35A	SS36A	SS38A	SS39A	SS310A	
Peak forward surge current 8.3ms single half sine-wave	I_{FSM}	80								A
Maximum instantaneous forward voltage at $I_{FM}=1.0A$ (NOTE1)	V_F	0.50			0.75			0.85		V
Maximum DC reverse current $T_J=25^\circ C$	I_R	0.5 20								mA
Maximum thermal resistance	$R_{\theta Jc}$	10								$^\circ C/W$
Operating junction temperature range	T_J	-55 +125								$^\circ C$
Storage temperature range	T_{STG}	-55 +150								$^\circ C$

Notes:

1.Pulse test: Pulse width 300us, duty cycle 1%

SS32A-SS310A

Surface Mount Schottky Barrier Rectifiers

REVERSE VOLTAGE: 20 - 100 V

■ Ratings and Characteristic Curves

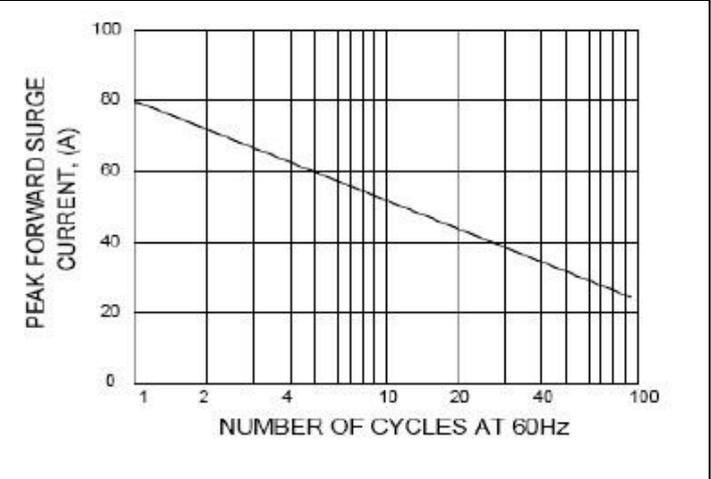
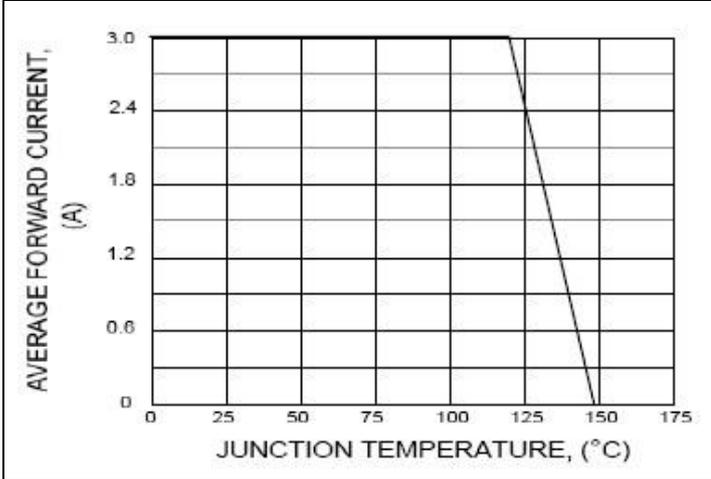


FIG. 1 FORWARD DERATING CURVE

FIG. 2 PEAK FORWARD SURGE CURRENT

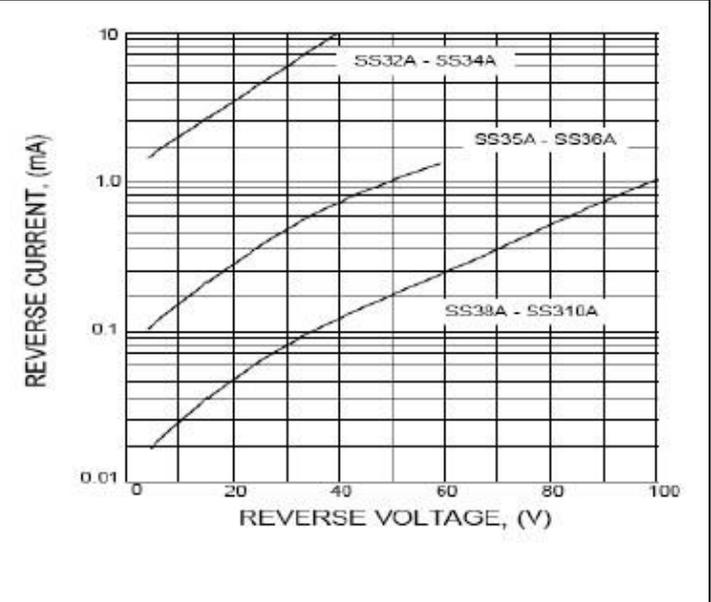
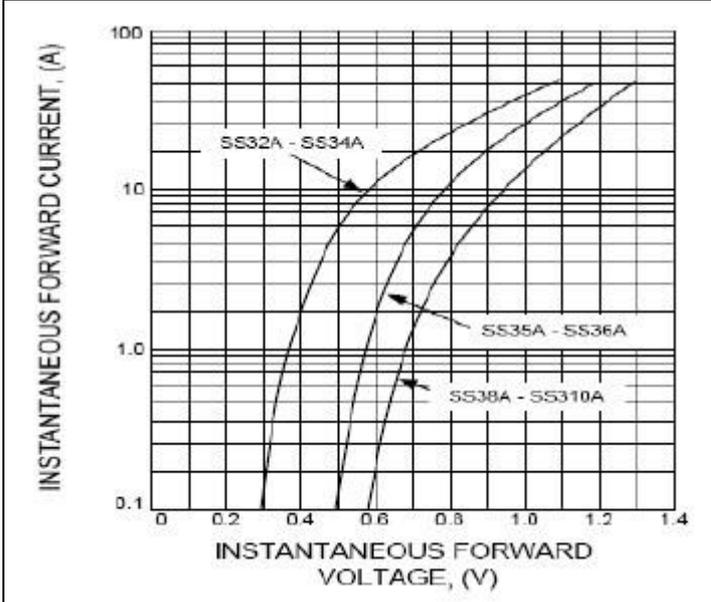


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

FIG. 4 TYPICAL REVERSE CHARACTERISTICS

SS32A-SS3100A

Surface Mount Schottky Barrier Rectifiers

REVERSE VOLTAGE: 20 - 100 V

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE

WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Bruckewell Technology Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Bruckewell"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Bruckewell makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Bruckewell disclaims

- (i) Any and all liability arising out of the application or use of any product.
- (ii) Any and all liability, including without limitation special, consequential or incidental damages.
- (iii) Any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Bruckewell's knowledge of typical requirements that are often placed on Bruckewell products in generic applications.

Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time.

Product specifications do not expand or otherwise modify Bruckewell's terms and conditions of purchase, including but not limited to the warranty expressed therein.