

SS32A-SS310A

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

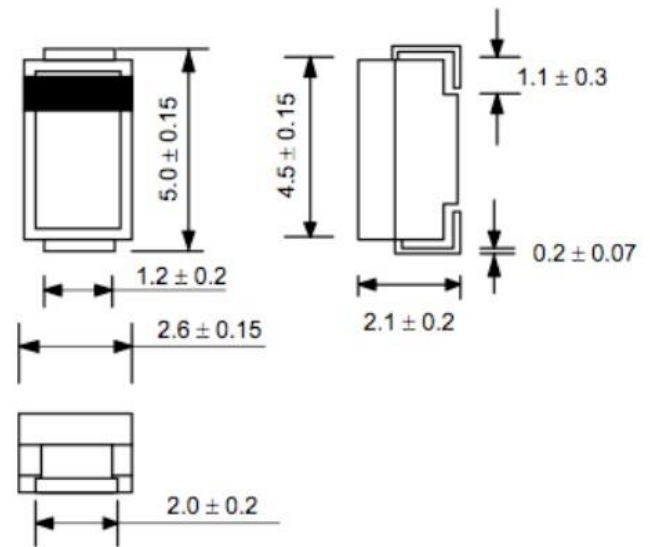
Mechanical Data

- 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

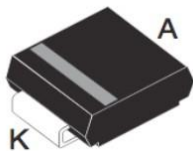
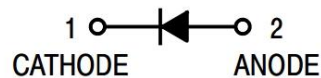
5,000/Reel

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

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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%

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■ Ratings and Characteristic Curves

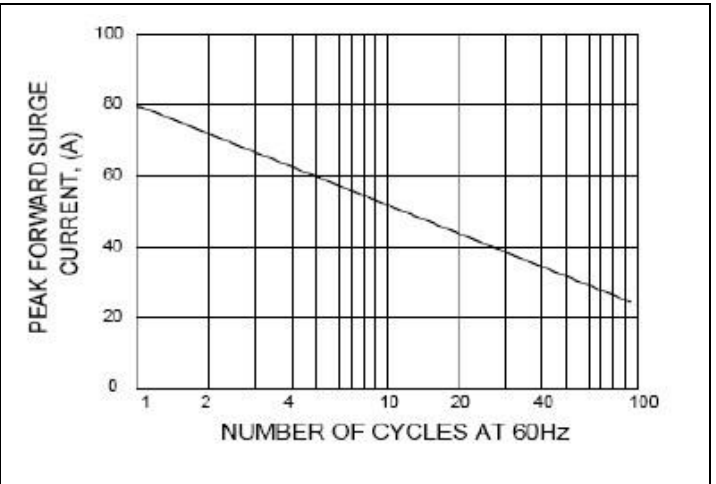
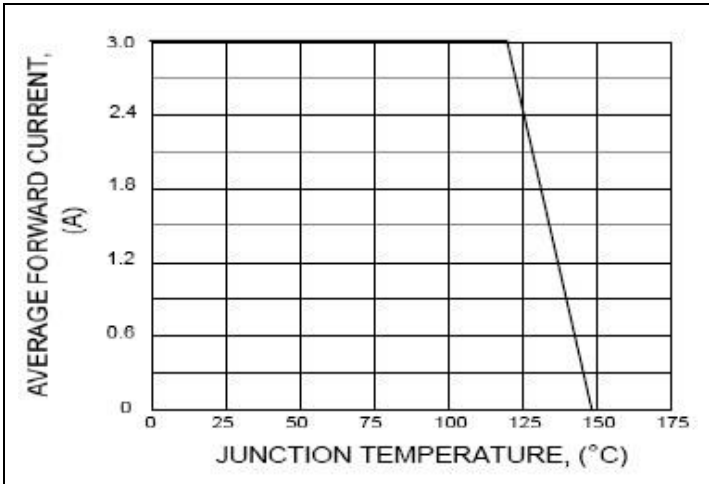


FIG. 1 FORWARD DERATING CURVE

FIG. 2 PEAK FORWARD SURGE CURRENT

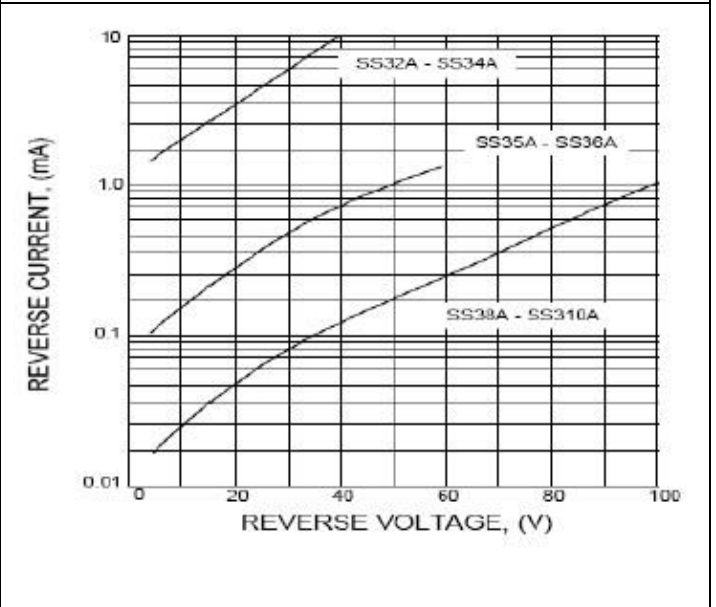
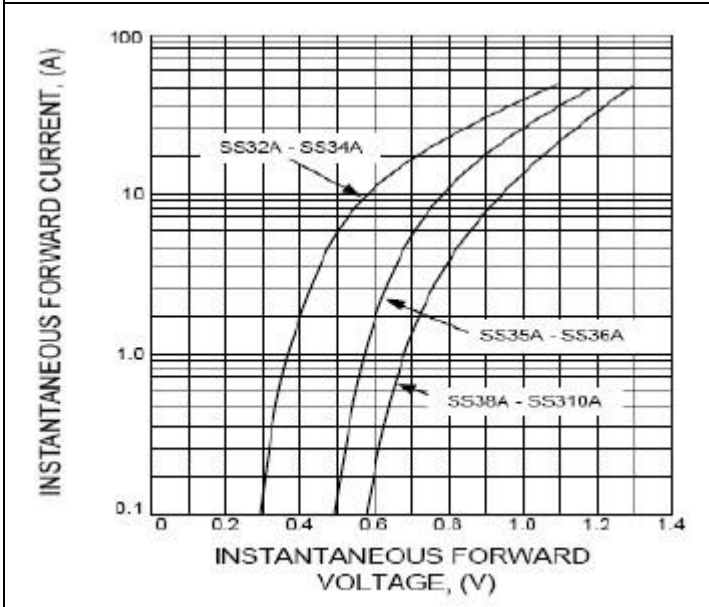


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

FIG. 4 TYPICAL REVERSE CHARACTERISTICS

SS32A-SS3100A

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