

# SS32-SS3100

## Surface Mount Schottky Barrier Rectifiers

REVERSE VOLTAGE: 20 - 100 V

### Features

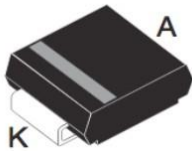
- Guarding protection
- Low forward voltage
- Reverse energy tested
- High current capability
- Extremely low thermal resistance
- RoHS compliant package

### Mechanical Data

- Case: SMC Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Lead Formed for Surface Mount
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.229 grams

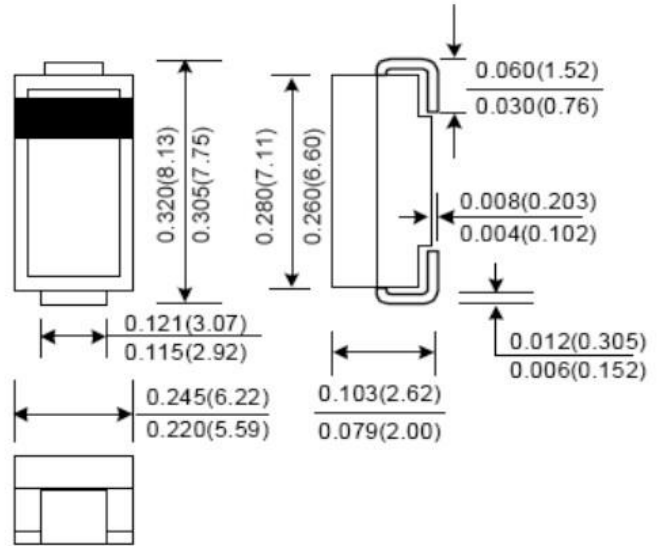
### Packing & Order Information

3,000/Reel



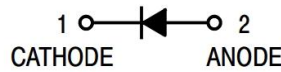
**RoHS  
COMPLIANT**

### SMC (DO-214AB)



Dimensions in inches and (millimeter)

### Graphic symbol



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

		SS32	SS33	SS34	SS35	SS36	SS38	SS39	SS3100	Unit
Device marking code		SS32	SS33	SS34	SS35	SS36	SS38	SS39	SS3100	
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	50	60	80	90	100	V
Maximum RMS voltage	$V_{RWS}$	14	21	28	35	42	56	63	70	V
Maximum DC blocking voltage	$V_{DC}$	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		SS32	SS33	SS34	SS35	SS36	SS38	SS39	SS3100		
Peak forward surge current 8.3ms single half sine-wave	$I_{FSM}$	100								A	
Maximum instantaneous forward voltage at IFM=3.0A (NOTE1)	$V_F$	0.50		0.75		0.85				V	
Maximum DC reverse current TJ=25°C	$I_R$	0.5 20								mA	
Maximum thermal resistance	$R_{\theta Jc}$	10								°C/W	
Operating junction temperature range	$T_J$	-55 +125			-55 +150						°C
Storage temperature range	$T_{STG}$	-55 +150								°C	

**Notes:**

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

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■ RATING AND CHARACTERISTIC CURVES

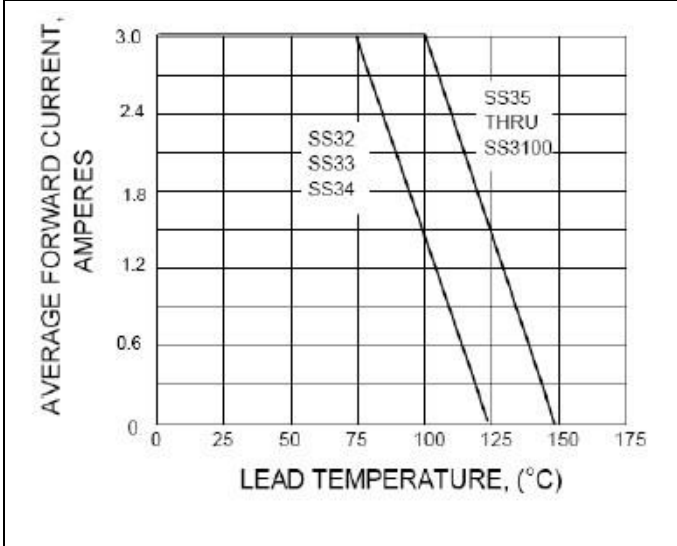


FIG.1-FORWARD CURRENT CURVE

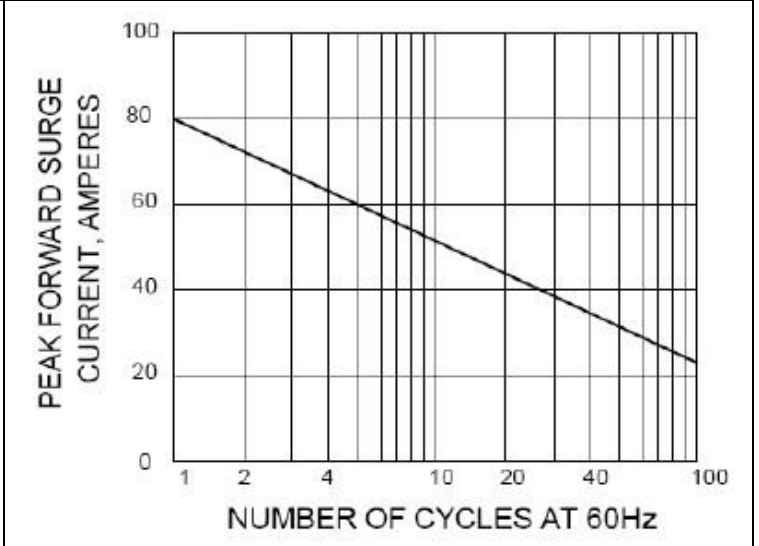


FIG.2-PEAK FORWARD SURGE CURRENT

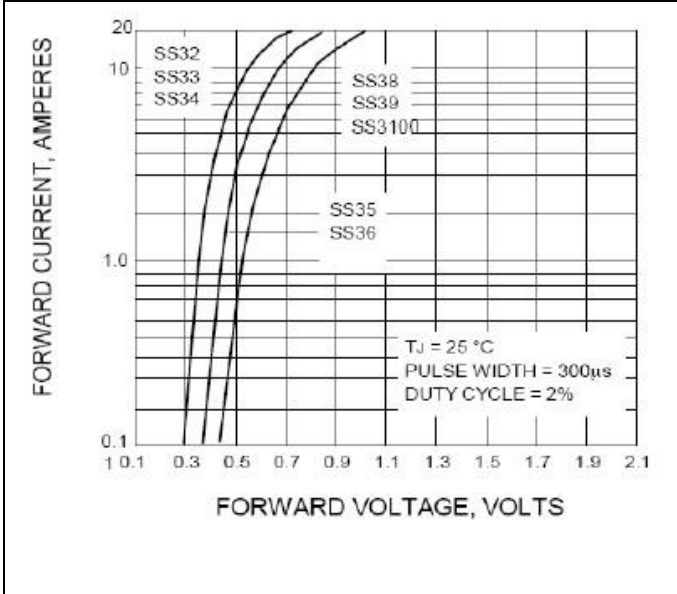


FIG.3-TYPICAL FORWARD CHARACTERISTICS

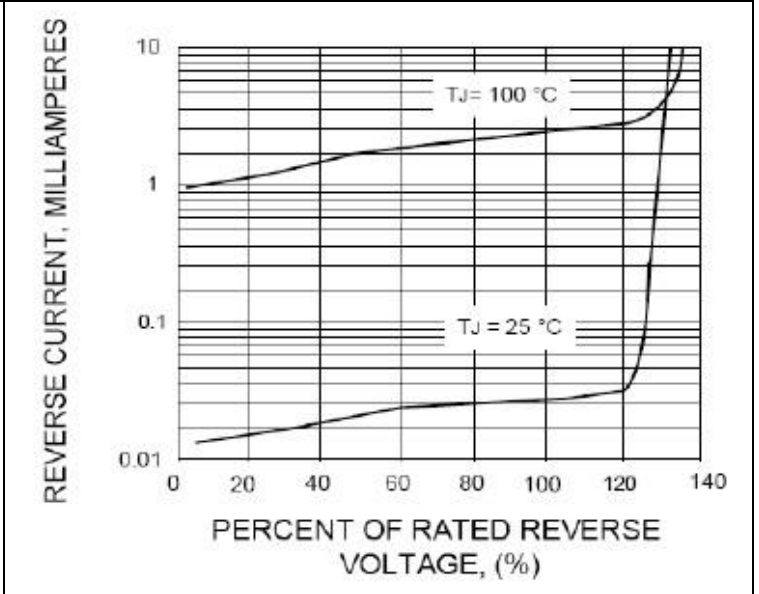


FIG.4-TYPICAL REVERSE CHARACTERISTICS

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### Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE

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