

SS32-SS3100

Surface Mount Schottky Barrier Rectifiers

REVERSE VOLTAGE: 20 - 100 V

Features

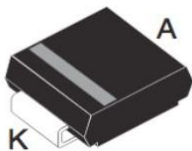
- Guarding protection
- Low forward voltage
- Reverse energy tested
- High current capability
- Extremely low thermal resistance
- RoHS compliant package

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

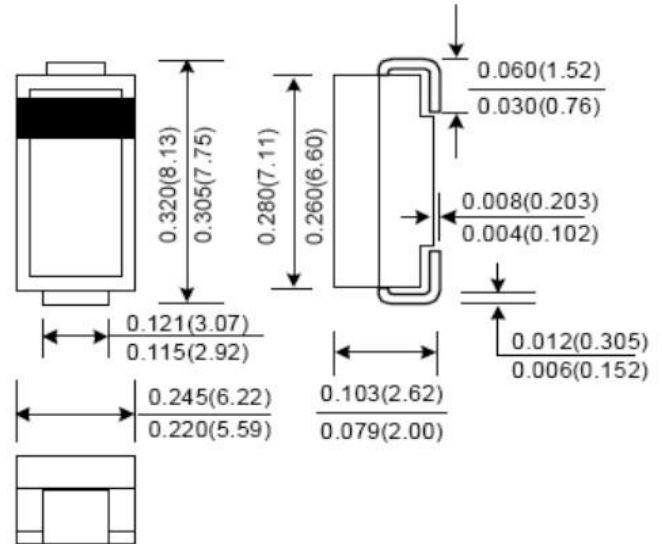
Packing & Order Information

3,000/Reel



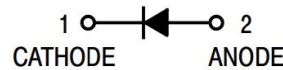
**RoHS
COMPLIANT**

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 $T_J=25^\circ\text{C}$	I_R	0.5 20								mA	
Maximum thermal resistance	$R_{\theta Jc}$	10								$^\circ\text{C/W}$	
Operating junction temperature range	T_J	-55 +125			-55 +150						$^\circ\text{C}$
Storage temperature range	T_{STG}	-55 +150								$^\circ\text{C}$	

Notes:

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

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■ RATING AND CHARACTERISTIC CURVES

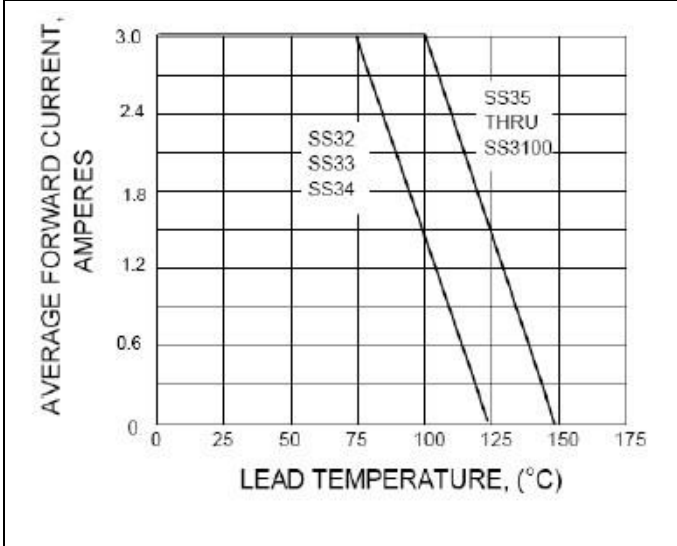


FIG.1-FORWARD CURRENT CURVE

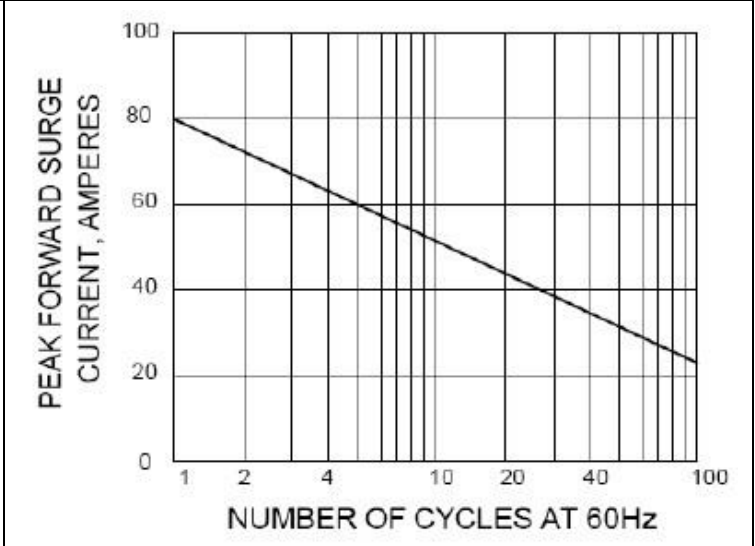


FIG.2-PEAK FORWARD SURGE CURRENT

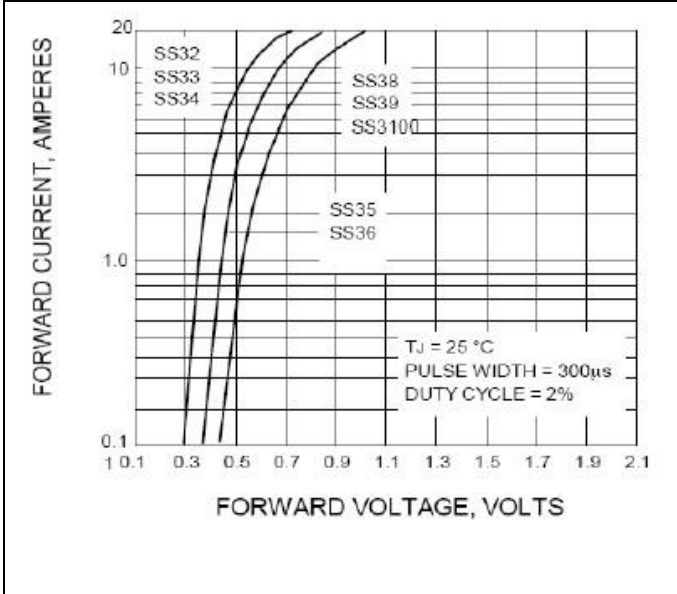


FIG.3-TYPICAL FORWARD CHARACTERISTICS

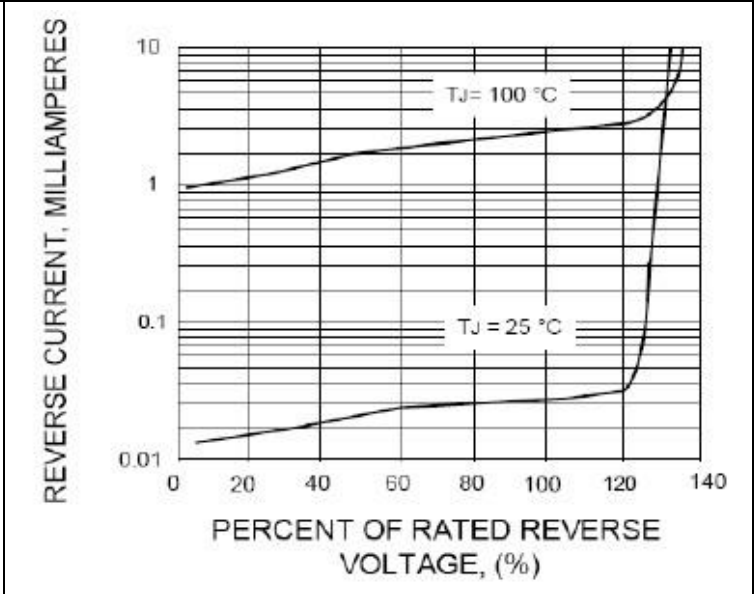


FIG.4-TYPICAL REVERSE CHARACTERISTICS

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