

SS22A-SS2100A

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

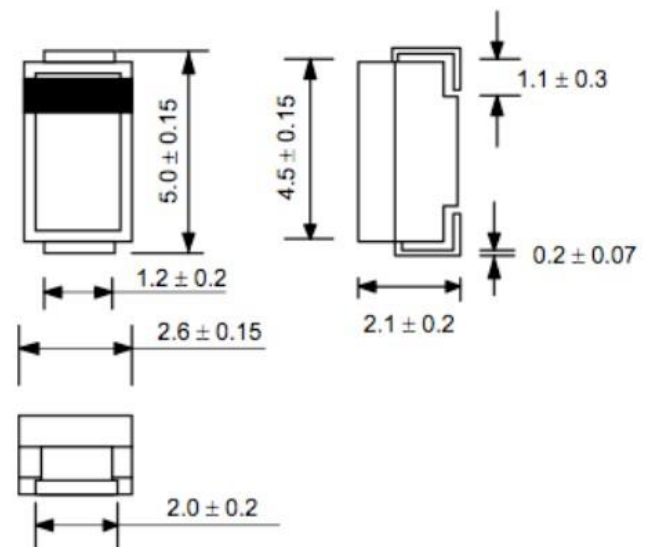
Mechanical Data

- Case: DO-214AC 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

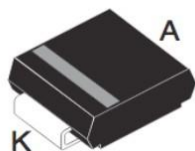
5,000/Reel

SMA (DO-214AC)

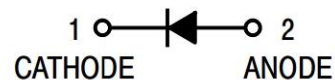


Dimensions in millimeters

Graphic symbol



RoHS
COMPLIANT



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

		SS22A	SS23A	SS24A	SS25A	SS26A	SS28A	SS29A	SS2100A	Unit
Device marking code		SS22A	SS23A	SS24A	SS25A	SS26A	SS28A	SS29A	SS2100A	
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 $T_L=90^\circ\text{C}$	$I_{F(AV)}$	2								A

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		SS22A	SS23A	SS24A	SS25A	SS26A	SS28A	SS29A	SS2100A	Unit
Device marking code		SS22A	SS23A	SS24A	SS25A	SS26A	SS28A	SS29A	SS2100A	
Peak forward surge current 8.3ms single half sine-wave	I _{FSM}	80								A
Maximum instantaneous forward voltage at IFM=1.0A (NOTE1)	V _F	0.45			0.70		0.80			V
Maximum DC reverse current TJ=25°C	I _R	0.2 20								mA
Maximum thermal resistance	R _{θJc}	10								°C/W
Junction Capacitance	C _j	70								PF
Operating junction temperature range	T _J	-55 +125								°C
Maximum reverse recovery time	T _{rr}	20								ns
Storage temperature range	T _{STG}	-55 +150								°C

Notes:

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

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■ Ratings and Characteristic Curves

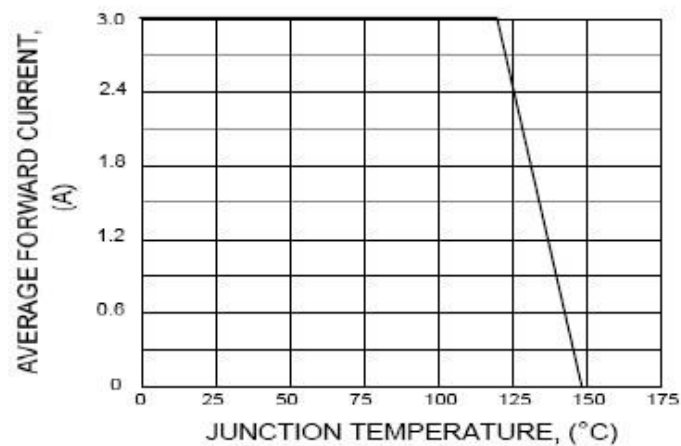


FIG. 1 FORWARD DERATING CURVE

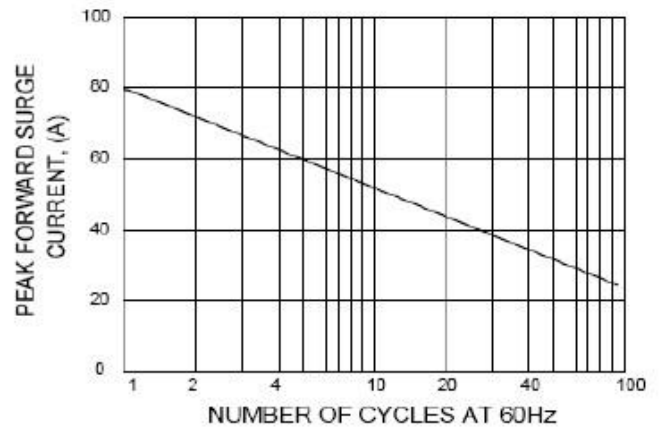


FIG. 2 PEAK FORWARD SURGE CURRENT

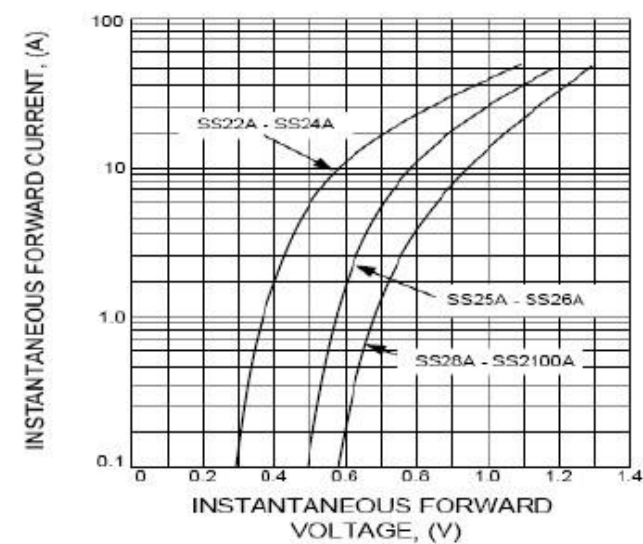


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

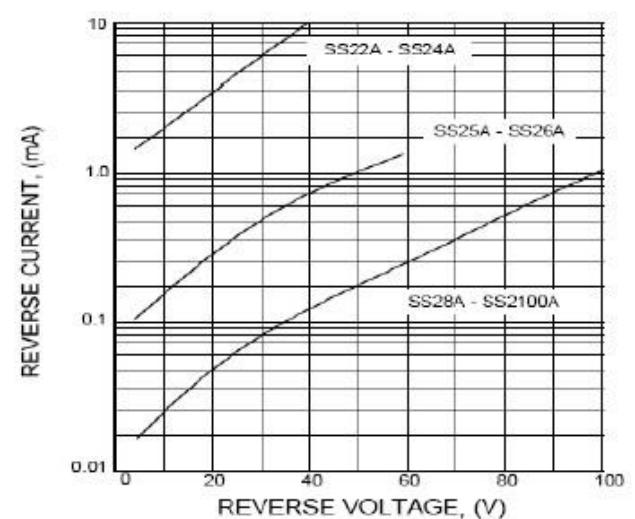


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

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