

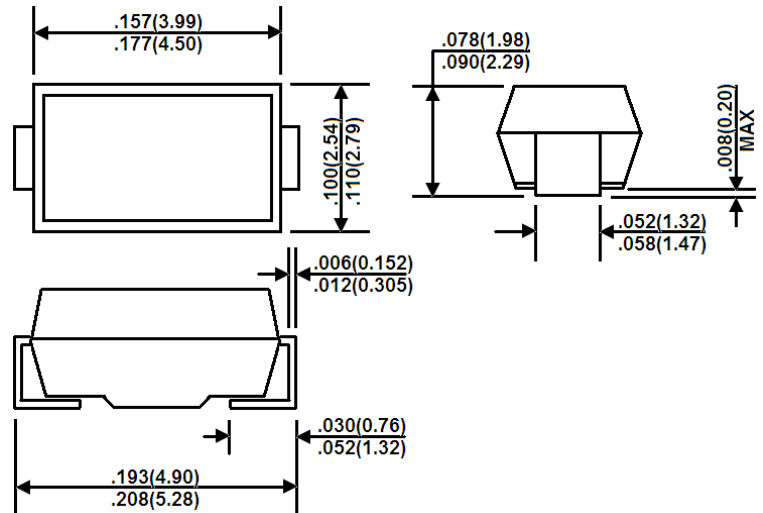
Features

- * The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- * For surface mounted applications
- * Low reverse leakage
- * Built-in strain relief, ideal for automated placement
- * High forward surge current capability
- * High temperature soldering guaranteed:
260°C/10 seconds at terminals
- * AEC-Q101 qualified



Package Outline Dimensions in inches (millimeters)

SMA:



Mechanical Data

- * Case: JEDEC DO-214AC molded plastic body
- * Terminals: leads solderable per MIL-STD-750, Method 2026
- * Polarity: Color band denotes cathode end
- * Mounting Position: Any

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number	Symbols	SS 32A	SS 33A	SS 34A	SS 35A	SS 36A	SS 38A	SS 310A	SS 315A	SS 320A	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum D.C Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	3.0									A
Peak Forward Surge Current, 8.3ms single half sine-wave	I_{FSM}	80									A
Maximum Instantaneous Forward Voltage at 3.0A(Note1)	V_F	0.55			0.72			0.85		0.95	V
Maximum Reverse Current $T_J=25^\circ\text{C}$ at Rated V_R $T_J=100^\circ\text{C}$ $T_J=125^\circ\text{C}$	I_R	0.5			0.2			0.1			mA
		10			5			-			
		-			10			0.5			
Voltage Rate of Change (Rated V_R)	dV/dt	10000									V/ μ s
Typical Thermal Resistance	$R_{\theta JL}$	25									$^\circ\text{C/W}$
	$R_{\theta JA}$	66									
Operating junction temperature range	T_J	-55 to +125				-55 to +150					$^\circ\text{C}$
Storage temperature range	T_{STG}	-55 to +150									$^\circ\text{C}$

NOTE: 1、 Pulse test: $t_p=300 \mu$ S, 1% duty cycle

Ratings and Characteristic Curves

FIG. 1 FORWARD CURRENT DERATING CURVE

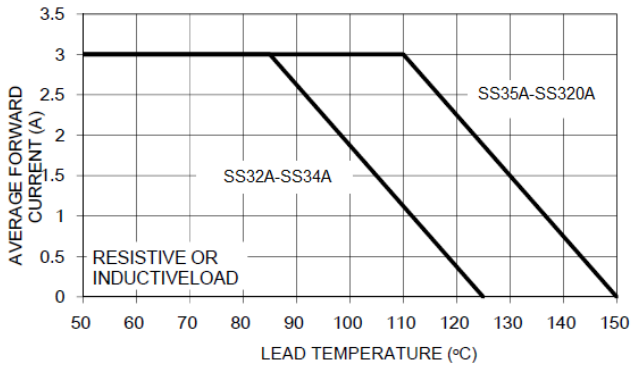


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

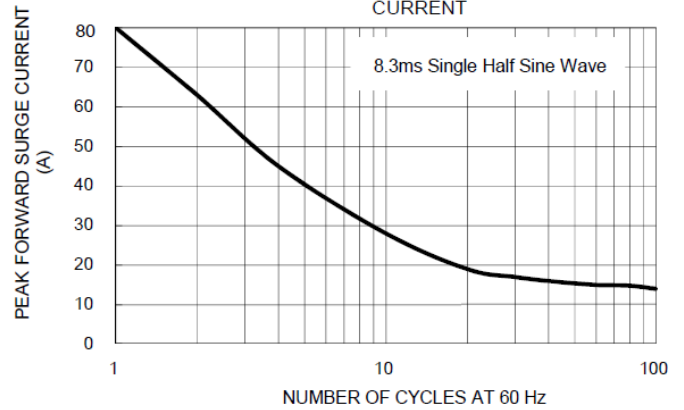


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

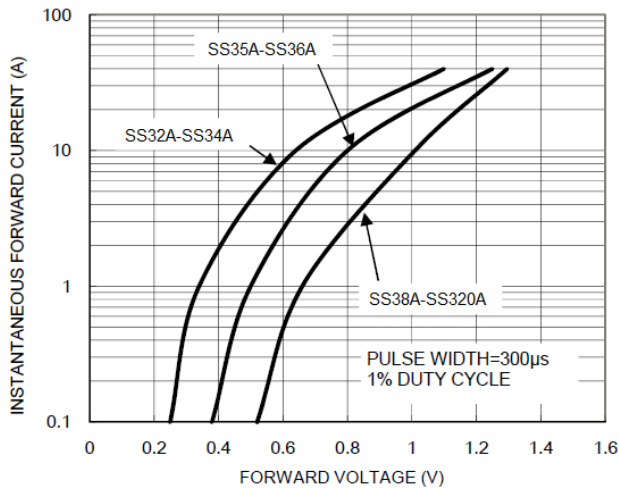


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

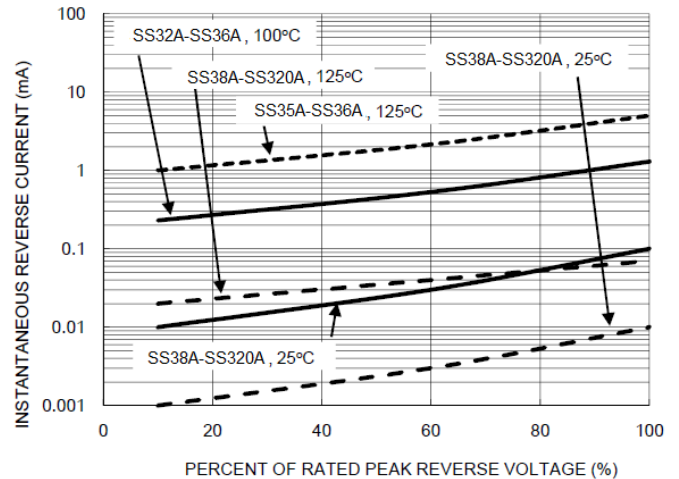


FIG. 5 TYPICAL JUNCTION CAPACITANCE

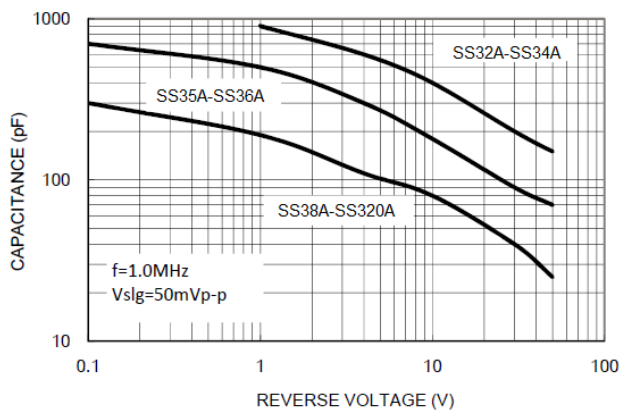
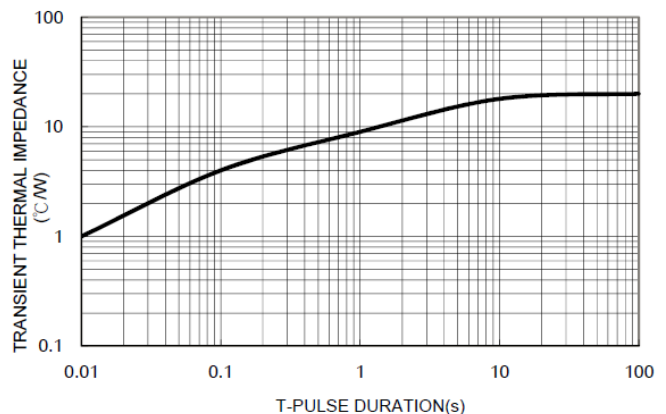


FIG. 6 TYPICAL TRANSIENT THERMAL IMPEDANCE





SS32A THRU SS320A

3.0 Amps. Surface Mount Schottky Barrier Rectifiers

Ordering Information

Part No.	Package	Packing
SS32A~SS320A	SMA	5K/Reel
SS32A~SS320A	SMA	6K/Reel
SS32A~SS320A	SMA	7.5K/Reel