

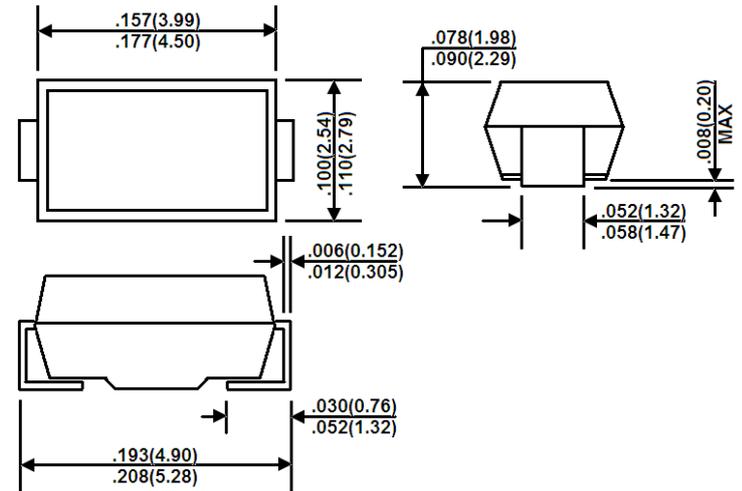
Features

- * The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- * For surface mounted applications
- * Metal silicon junction, majority carrier conduction
- * Low power loss, high efficiency
- * 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 22A	SS 23A	SS 24A	SS 245A	SS 25A	SS 26A	SS 28A	SS 210A	SS 215A	SS 220A	Unit	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	45	50	60	80	100	150	200	V	
Maximum RMS Voltage	V_{RMS}	14	21	28	32	35	42	56	70	105	140	V	
Maximum D.C Blocking Voltage	V_{DC}	20	30	40	45	50	60	80	100	150	200	V	
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2.0										A	
Peak Forward Surge Current, 8.3ms single half sine-wave	I_{FSM}	50										A	
Maximum Instantaneous Forward Voltage at 2.0A(Note1)	V_F	0.55			0.70			0.85		0.95		V	
Maximum Reverse Current @ Rated VR $T_J=25^\circ C$ $T_J=100^\circ C$ $T_J=125^\circ C$	I_R	0.5						0.1				mA	
		10.0			5.0			-					
		-						2.0					
Voltage Rate of Change (Rated VR)	dV/dt	10000										V/ μs	
Typical Thermal Resistance	$R_{\theta JA}$	88										°C/W	
Operating Junction Temperature Range	T_J	-55 to +125					-55 to +150						°C
Storage Temperature Range	T_{STG}	-55 to +150										°C	

Note: 1、 Pulse test: $t_p=300 \mu s$, 1% duty cycle

Ratings and Characteristic Curves

FIG. 1- MAXIMUM FORWARD CURRENT DERATING CURVE

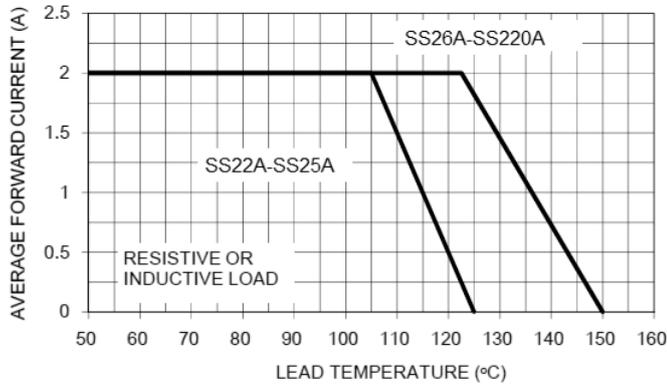


FIG. 2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

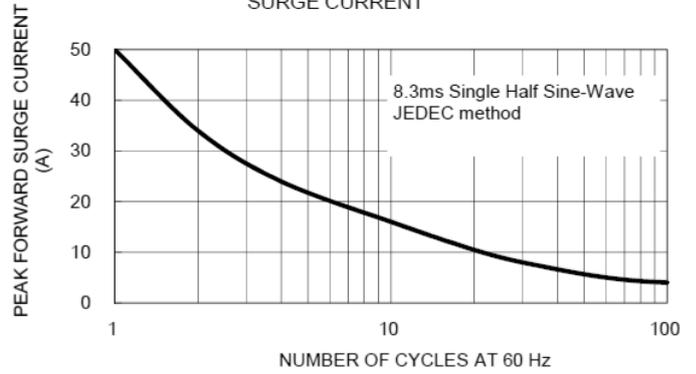


FIG. 3- TYPICAL FORWARD CHARACTERISTICS

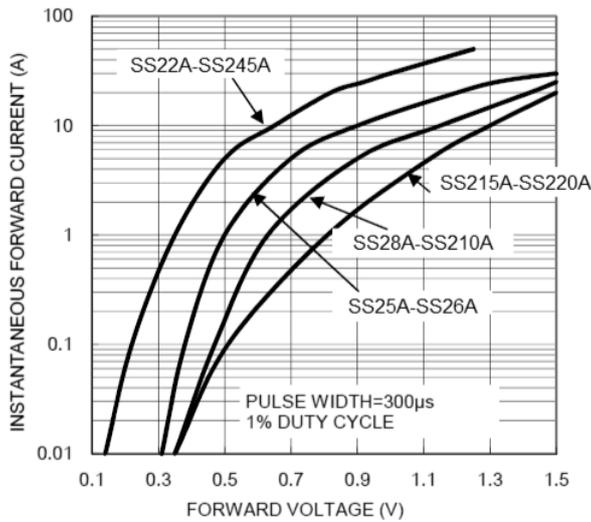


Fig. 4- TYPICAL REVERSE CHARACTERISTICS

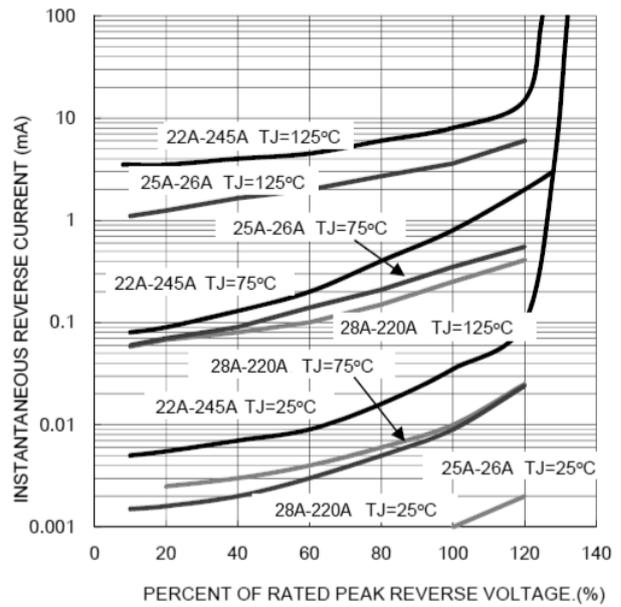


FIG. 5- TYPICAL JUNCTION CAPACITANCE

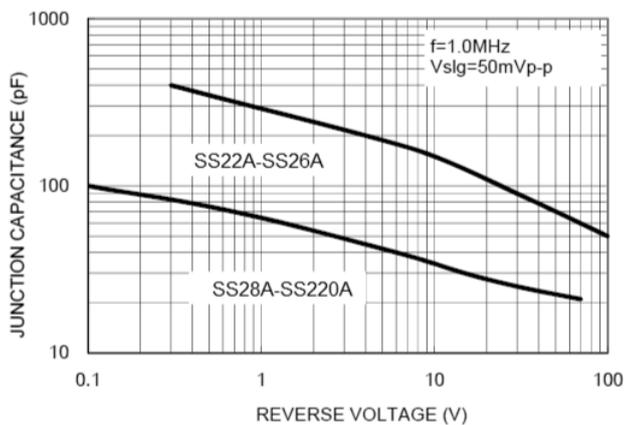
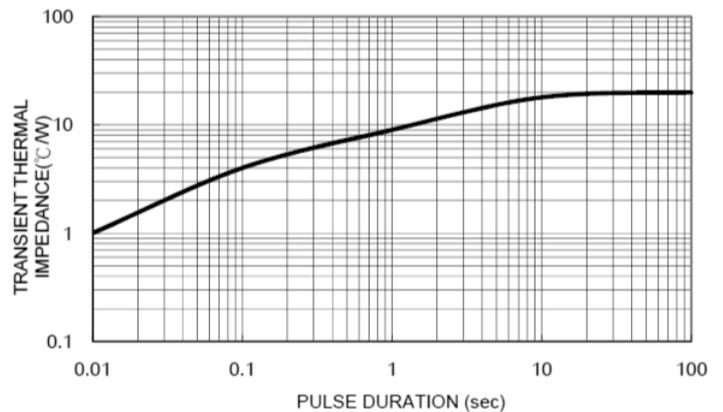


FIG. 6- TYPICAL TRANSIENT THERMAL CHARACTERISTICS





SS22A THRU SS220A

2.0 Amps. Surface Mount Schottky Barrier Rectifiers

Ordering Information

Part No.	Package	Packing
SS22A~SS220A	SMA	5K/Reel
SS22A~SS220A	SMA	6K/Reel
SS22A~SS220A	SMA	7.5K/Reel