

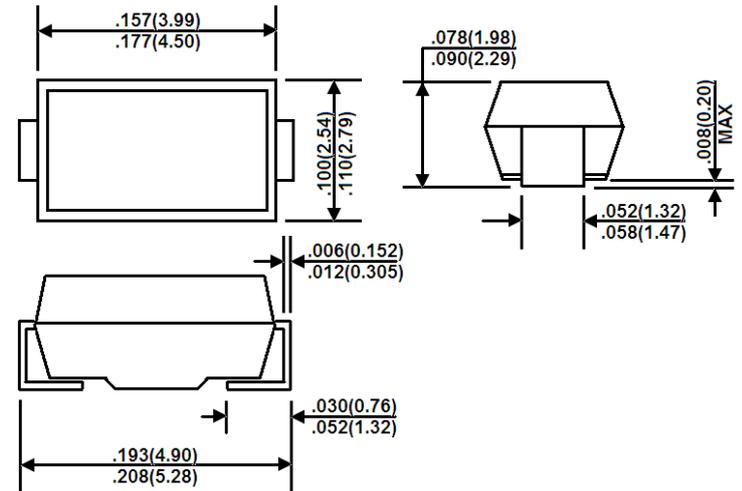
### Features

- \* 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 $T_J=25^\circ C$ @ Rated VR $T_J=100^\circ C$ $T_J=125^\circ C$	$I_R$	0.5						0.1				mA
		10.0			5.0			-				
		-						2.0				
Voltage Rate of Change (Rated VR)	$dV/dt$	10000										V/ $\mu s$
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

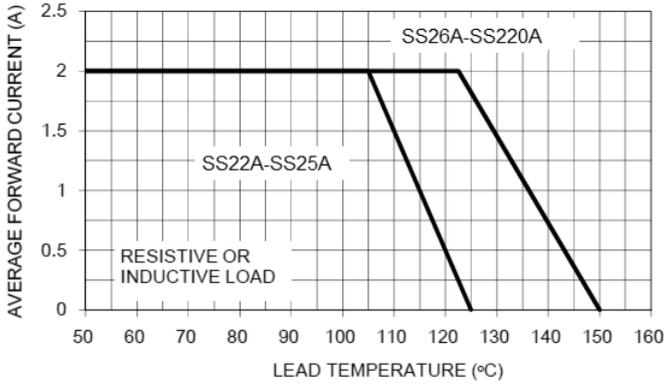


FIG. 2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

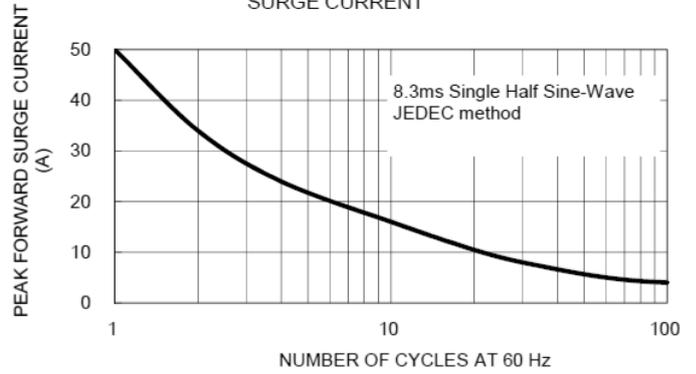


FIG. 3- TYPICAL FORWARD CHARACTERISTICS

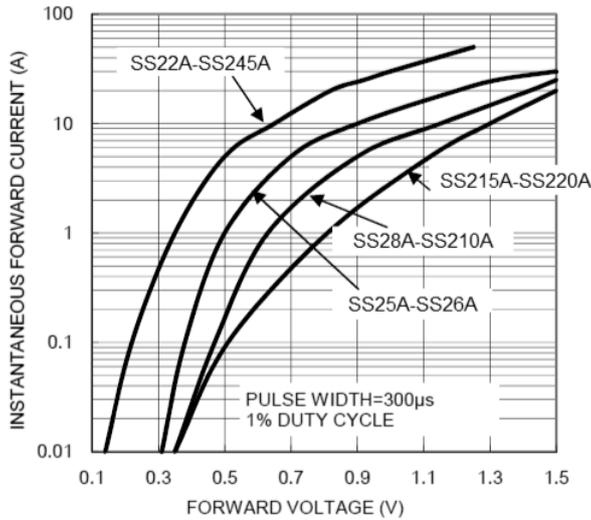


Fig. 4- TYPICAL REVERSE CHARACTERISTICS

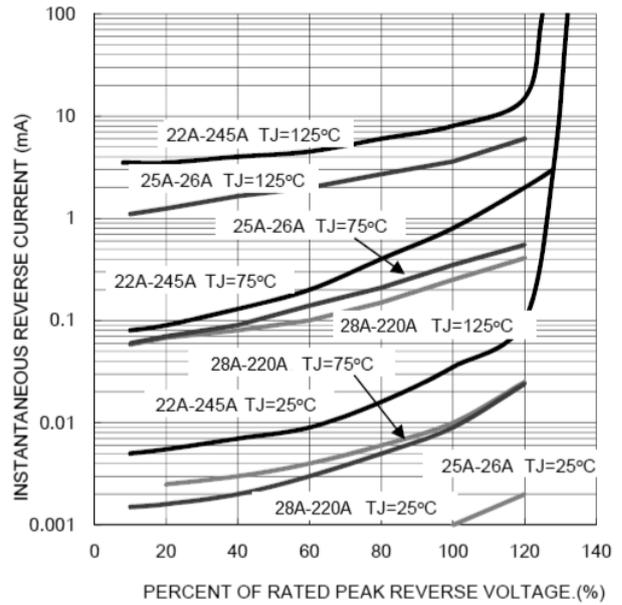


FIG. 5- TYPICAL JUNCTION CAPACITANCE

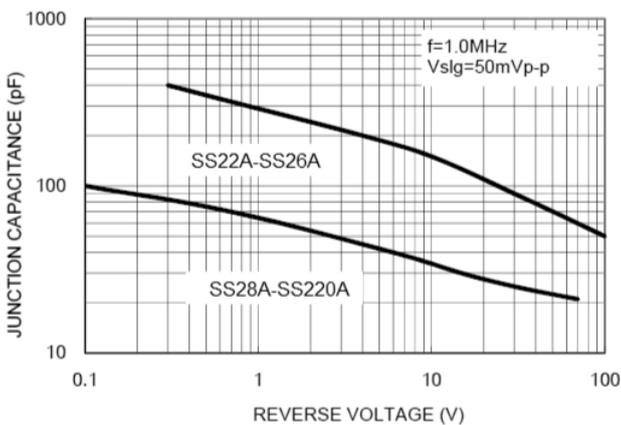
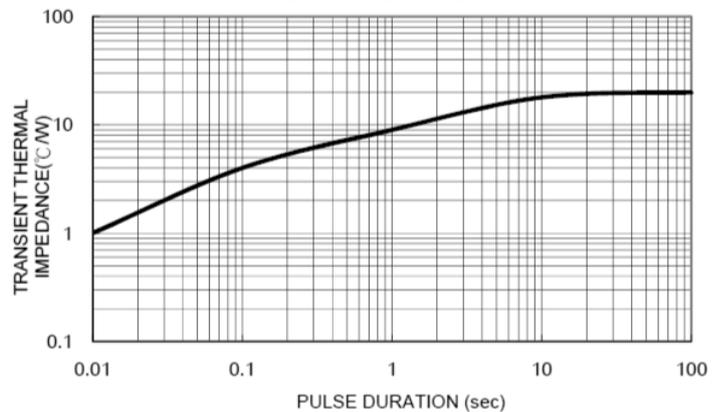


FIG. 6- TYPICAL TRANSIENT THERMAL CHARACTERISTICS





## SS22A THRU SS220A

*2.0 Amps. Surface Mount Schottky Barrier Rectifiers*

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### Ordering Information

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