

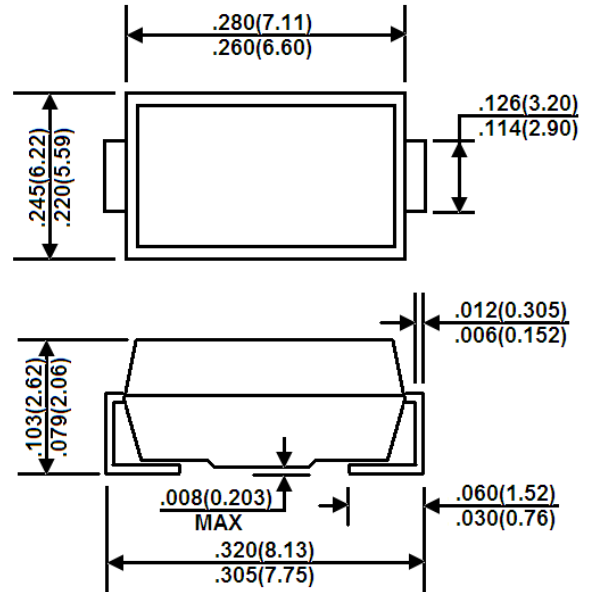
### Features

- \* 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



### Package Outline Dimensions in inches (millimeters)

#### SMC:



### Mechanical Data

- \* Case: JEDEC DO-214AB 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	SS32	SS33	SS34	SS35	SS36	SS38	SS310	SS315	SS320	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	105	140	V
Maximum D.C Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	3.0									A
Peak Forward Surge Current, 8.3ms single half sine-wave	I <sub>FSM</sub>	100									A
Maximum Instantaneous Forward Voltage at 3.0A(Note1)	V <sub>F</sub>	0.55			0.70		0.85		0.95		V
Maximum D.C Reverse Current @ T <sub>A</sub> =25℃ at Rated D.C Blocking Voltage @ T <sub>A</sub> =100℃	I <sub>R</sub>	0.5							0.2		mA
		20					10		2.0		
Typical Junction Capacitance(Note2)	C <sub>J</sub>	500			300						pF
Typical Thermal Resistance(Note3)	R <sub>θJA</sub>	55									℃/W
Operating junction temperature range	T <sub>J</sub>	-50 to +125					-50 to +150				℃
Storage temperature range	T <sub>STG</sub>	-50 to +150									℃

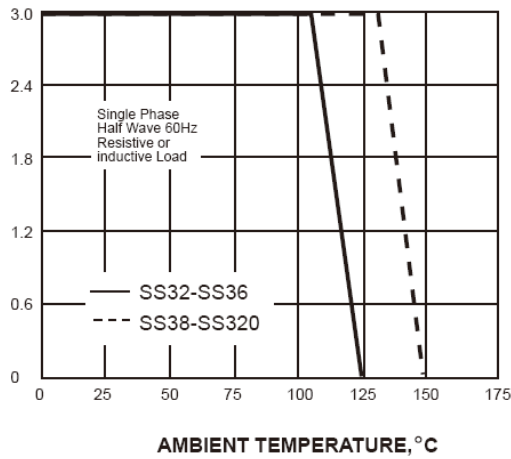
NOTE: 1、 Pulse test:  $t_p=300 \mu S$ , 2% duty cycle 2、 Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3、 P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

### Ratings and Characteristic Curves

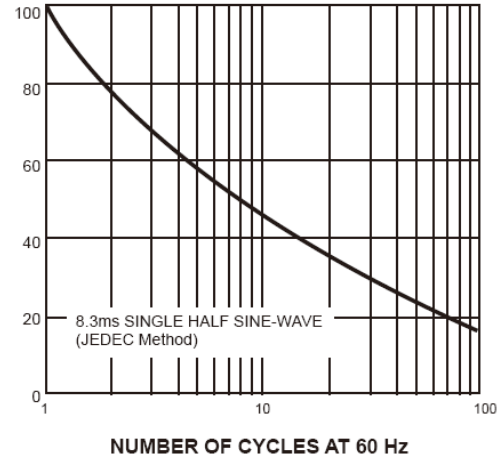
AVERAGE FORWARD RECTIFIED CURRENT,  
AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



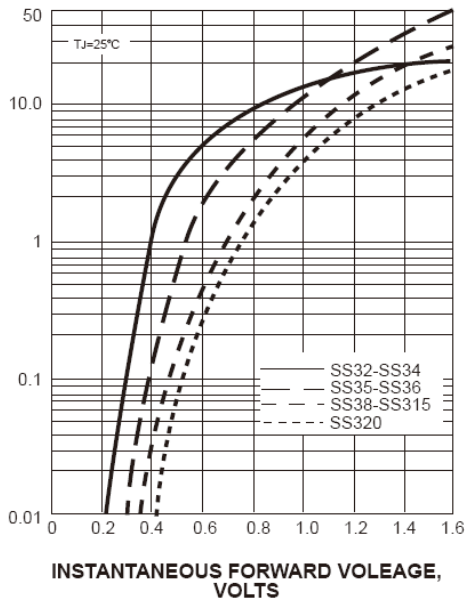
PEAK FORWARD SURGE CURRENT,  
AMPERES

FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



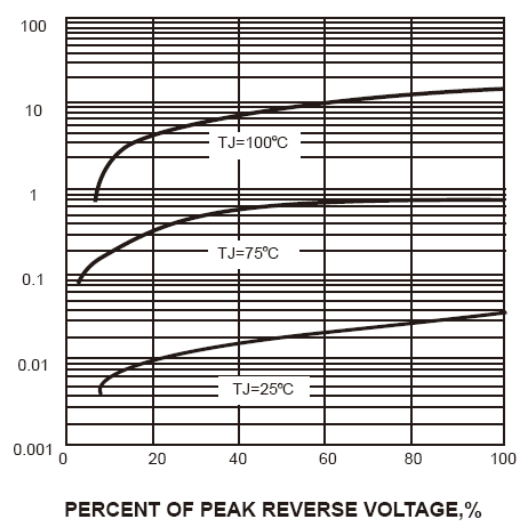
INSTANTANEOUS FORWARD  
CURRENT, AMPERES

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



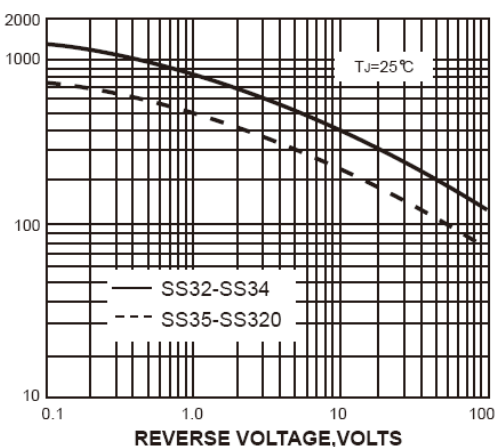
INSTANTANEOUS REVERSE CURRENT,  
MILLIAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



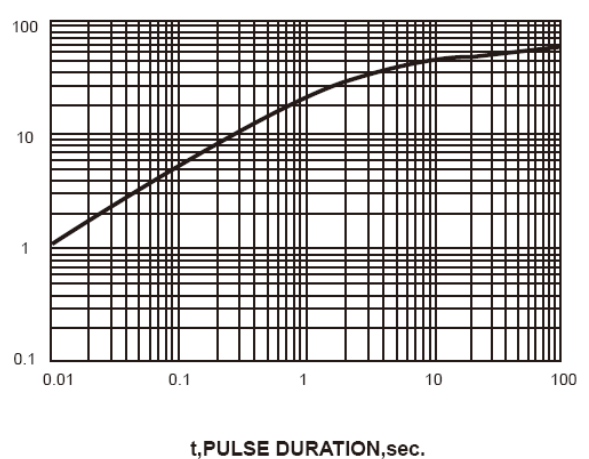
JUNCTION CAPACITANCE, pF

FIG. 5-TYPICAL JUNCTION CAPACITANCE



TRANSIENT THERMAL IMPEDANCE,  
°C/W

FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE





**SS32 THRU SS320**  
**3.0 Amps. Surface Mount Schottky Barrier Rectifiers**

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**Ordering Information**

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Part No.	Package	Packing
SS32~SS320	SMC	3K/Reel