

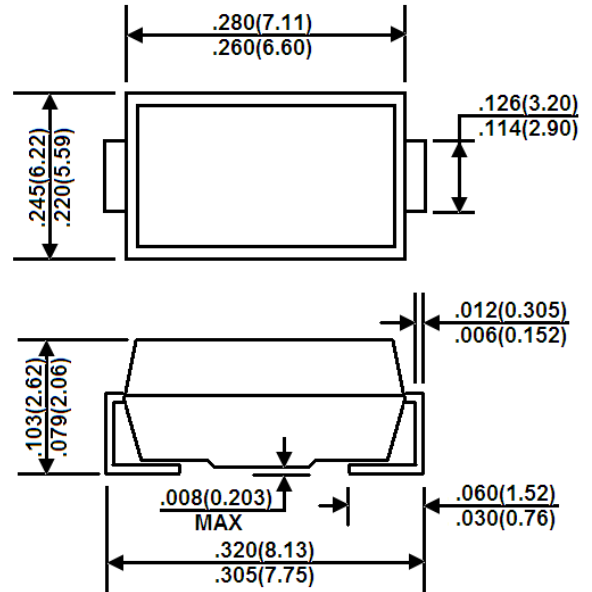
Features

- * 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_{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}	100									A	
Maximum Instantaneous Forward Voltage at 3.0A(Note1)	V_F	0.55		0.70		0.85		0.95			V	
Maximum D.C Reverse Current @ $T_A=25^\circ\text{C}$ at Rated D.C Blocking Voltage @ $T_A=100^\circ\text{C}$	I_R	0.5							0.2		mA	
		20			10		2.0					
Typical Junction Capacitance(Note2)	C_J	500			300					pF		
Typical Thermal Resistance(Note3)	$R_{\theta JA}$	55									°C/W	
Operating junction temperature range	T_J	-50 to +125					-50 to +150					°C
Storage temperature range	T_{STG}	-50 to +150									°C	

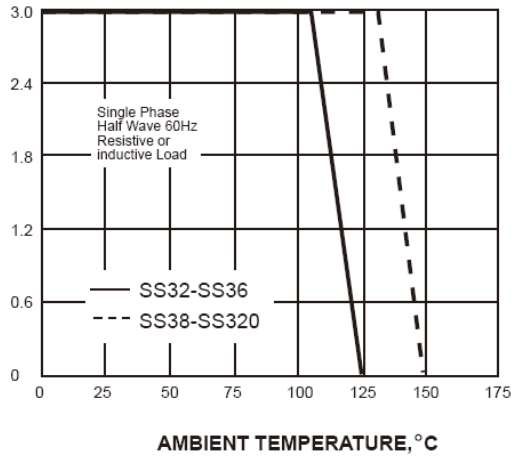
NOTE: 1、 Pulse test: $t_p=300 \mu\text{s}$, 2% duty cycle 2、 Measured at 1MHz and applied reverse voltage of 4.0V D.C.

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

Ratings and Characteristic Curves

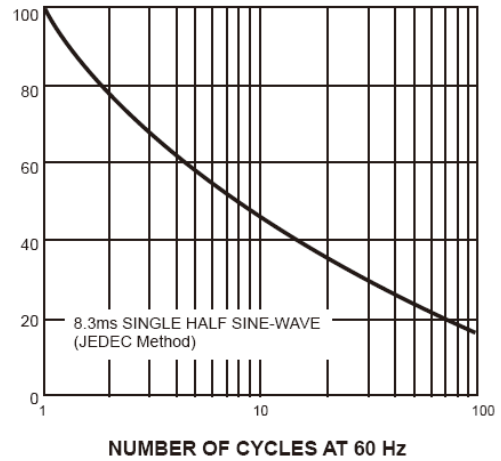
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



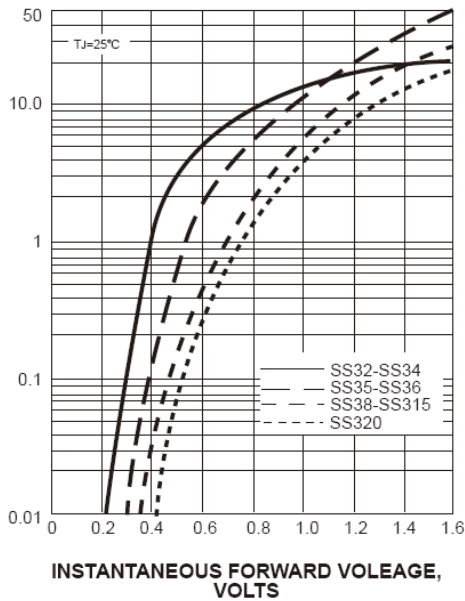
PEAK FORWARD SURGE CURRENT, AMPERES

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



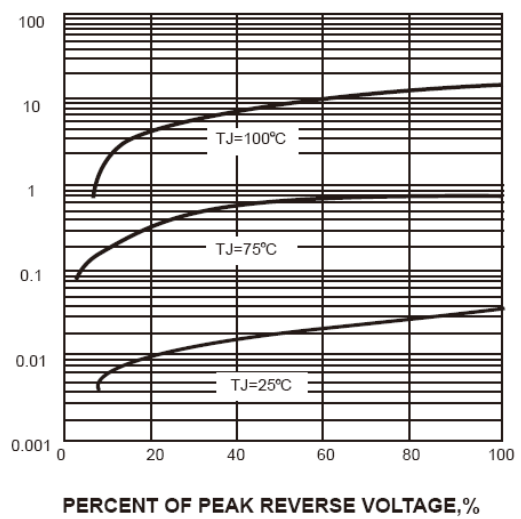
INSTANTANEOUS FORWARD CURRENT, AMPERES

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



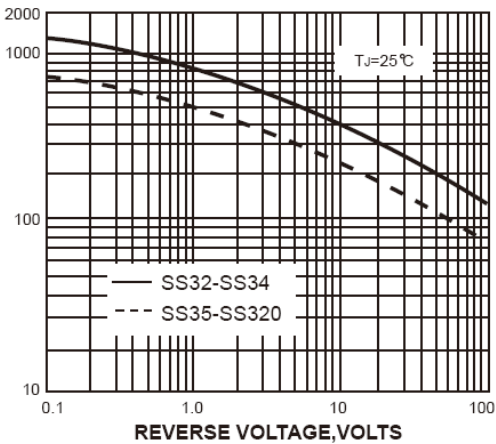
INSTANTANEOUS REVERSE CURRENT, MILLIAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



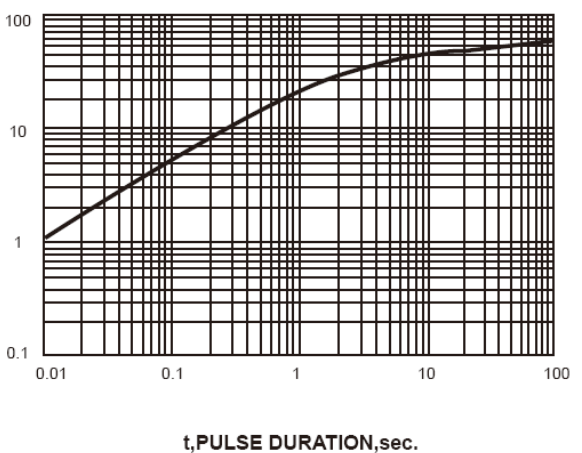
JUNCTION CAPACITANCE, pF

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

Ordering Information

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

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