

SS32 THRU SS3200

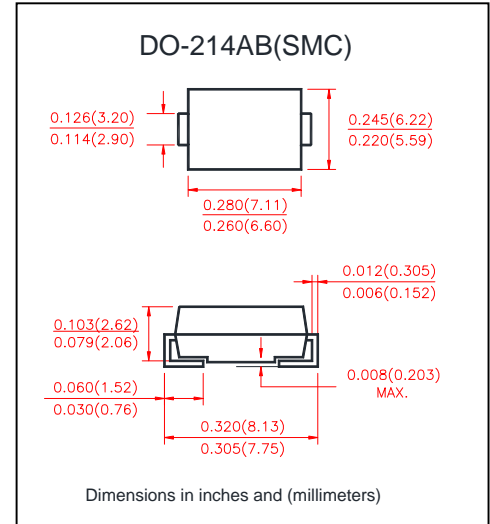
VOLTAGE RANGE 20 to 200 Volts
CURRENT 3.0 Ampere

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

MECHANICAL DATA

- Case: JEDED DO-214AB molded plastic over
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Solder plated, solderable per MIL-STD-750 method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.007 ounce, 0.25 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	SYMBOLS	SS32	SS33	SS34	SS35	SS36	SS38	SS310	SS3150	SS3200	UNIT	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	Volts	
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	Volts	
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	150	200	Volts	
Maximum Average Forward Rectified Current at T_L see figure.1	$I_{(AV)}$	3									Amps	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	80									Amps	
Maximum Instantaneous Forward Voltage @ 3.0A(Note3)	V_F	0.55		0.70		0.85		0.95		Volts		
Maximum DC Reverse Current at rated DC Blocking Voltage per element	$T_A = 25^\circ C$	0.5							0.2		mA	
	$T_A = 100^\circ C$	20				10		2				
Typical junction capacitance (NOTE 1)	C_J	500			300					pF		
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	55									°C/W	
Operating Junction Temperature	T_J	(-55 to +125)					(-55 to +150)					°C
Storage Temperature Range	T_{STG}	(-55 to +150)									°C	

Notes:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. PCB mounted with 0.55"×0.55"(14mm×14mm) copper pads
3. Pulse test: 300 μ s pulse width, 1% duty cycle



WEET Technology Company Limited

Schottky Barrier Rectifiers

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FIG.1-FORWARD CURRENT DERATING CURVE

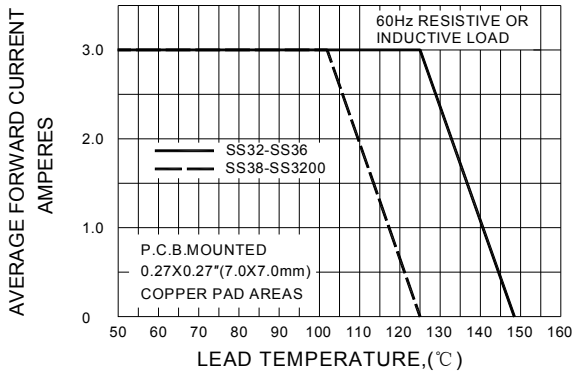


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

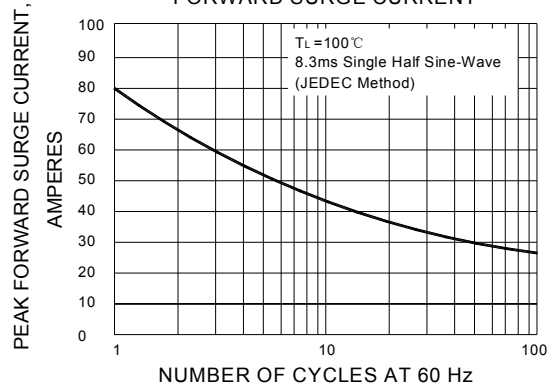


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

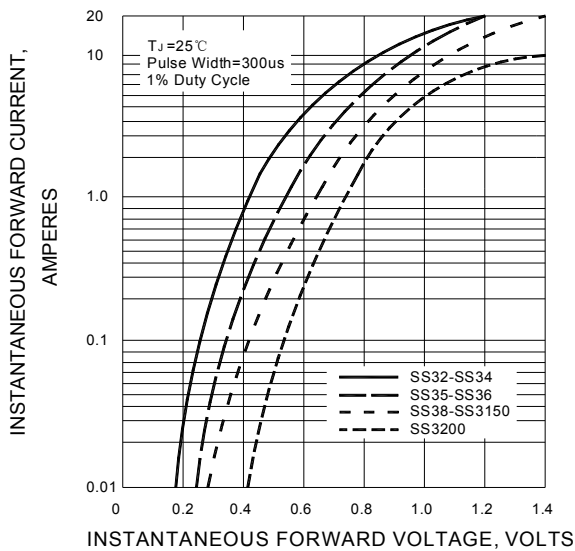


FIG.4-TYPICAL REVERSE CHARACTERISTICS

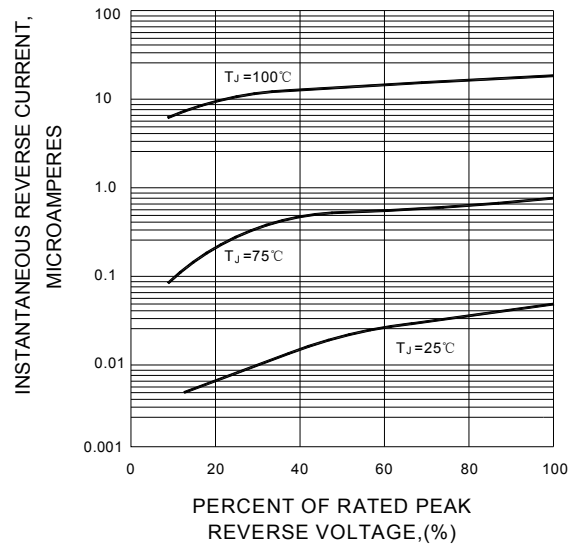
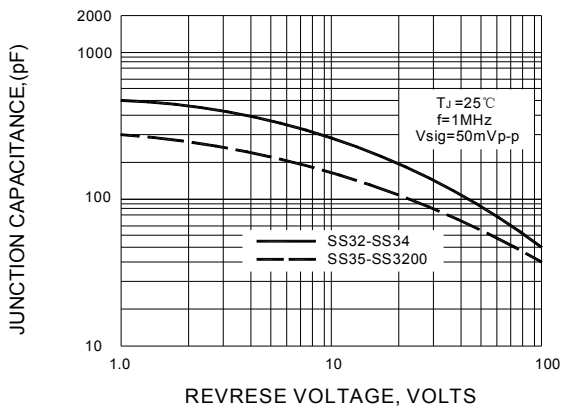


FIG.5-TYPICAL JUNCTION CAPACITANCE



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.