



WEE Technology Company Limited

Schottky Barrier Rectifiers

SS32 (SK32) THRU SS3A (SK3A)

VOLTAGE RANGE

20 to 100 Volts

CURRENT

3.0 Ampere

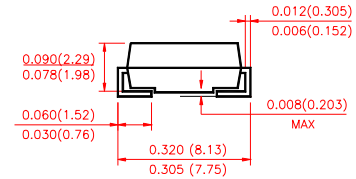
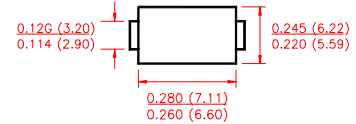
FEATURES

- Low profile surface mount package
- Built-in strain relief
- High switching speed
- Low voltage drop, high efficiency
- For use in low voltage high frequency inverters, Free willing, and polarity protection applications
- Guarding for over voltage protection

MECHANICAL DATA

- Case: Transfer molded plastic
- 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

DO-214AB(SMC)



Dimensions in inches and (millimeters)

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%.

		SYMBOLS	SS32 SK32	SS33 SK33	SS34 SK34	SS35 SK35	SS36 SK36	SS38 SK38	SS39 SK39	SS3A SK3A	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	20	30	40	50	60	80	90	100	Volts
Maximum RMS Voltage		V _{RMS}	14	21	28	35	42	56	63	70	Volts
Maximum DC Blocking Voltage		V _{DC}	20	30	40	50	60	80	90	100	Volts
Maximum Average Forward Rectified Current at T _L see figure 1 T _L =105°C		I _(AV)	3.0								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(Note1)		V _F	0.55		0.75			0.85			Volts
Maximum DC Reverse Current at rated	T _A = 25°C	I _R	0.5								mA
DC Blocking Voltage Per element	T _A = 100°C		20.0				10.0				
Typical Thermal Resistance (Note 2)		R _{θJA}	55								°C/W
		R _{θJL}	12								
Operating Junction Temperature		T _J	(-55 to +125)								°C
Storage Temperature Range		T _{STG}	(-55 to +150)								°C

Notes:

1. Pulse test: 300 μs pulse width, 1% duty cycle
2. PCB mounted with 0.55" $\times$ 0.55" (14mm $\times$ 14mm) copper pads



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RATING AND CHARACTERISTIC CURVES SS32 THRU SS310

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

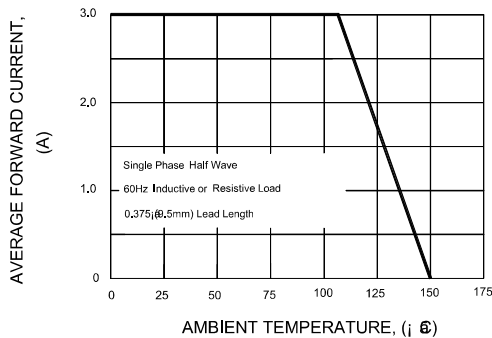


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

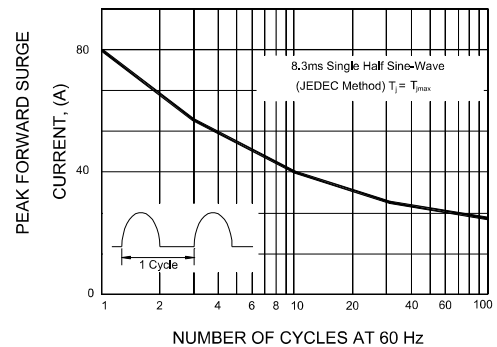


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

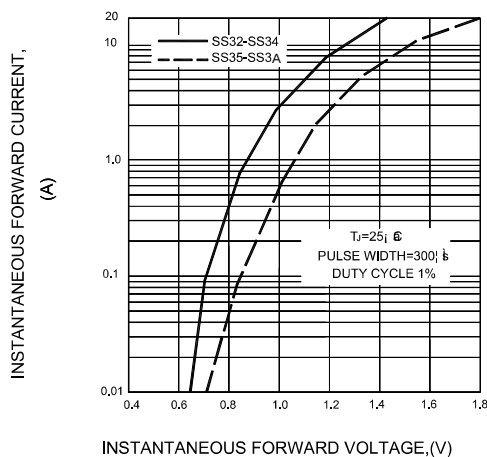


FIG.4-TYPICAL REVERSE CHARACTERISTICS

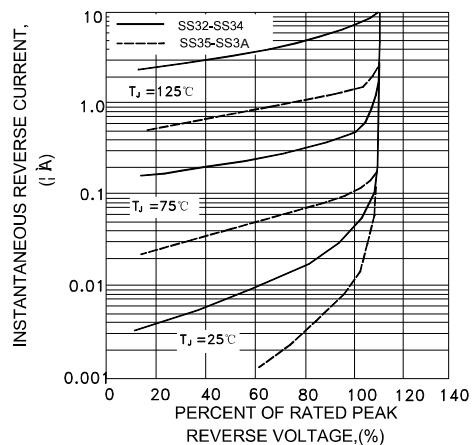
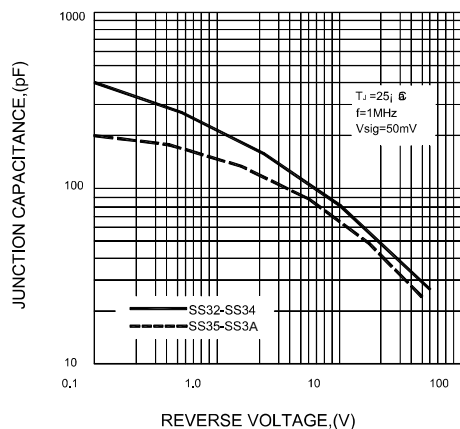


FIG.5-TYPICAL JUNCTION CAPACITANCE



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