SS32D THRU SS3AD

SCHOTTKY BARRIER RECTIFIERS Reverse Voltage - 20 to 100 V Forward Current - 3 A

Features

- Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- · Metal silicon junction, majority carrier conduction
- · For surface mount applications
- · Low power loss, high efficiency
- High current capability, low forward voltage drop.
- Low profile package
- · Built-in strain relief, ideal for automated placement
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

Mechanical Data

- Case: SMB (DO-214AA), molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, method 2026
- · Polarity: Color band denotes cathode end

Absolute Maximum Ratings and Characteristics

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

Parameter	Symbols	SS32D	SS33D	SS34D	SS35D	SS36D	SS38D	SS3AD	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	57	71	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current at 0.375"(9.5 mm) Lead Length	I _{F(AV)}	3							А
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	80							A
Maximum Instantaneous Forward Voltage at 3 A	V _F	0.55			0.75 0.		.85	V	
Maximum Reverse Current at Rated at $T_a = 25 ^{\circ}C$	I _R	1.5						mA	
DC Blocking at Voltage at $T_a = 100 ^{\circ}C$		20			10				
Typical Junction Capacitance ¹⁾	Cj	250 160				pF			
Typical Thermal Resistance ²⁾	$R_{ heta JA}$ $R_{ heta JL}$		55 17						°C/W
Operating Junction Temperature Range	Tj	- 6	- 65 to + 125 - 65 to + 150					°C	
Storage Temperature Range	T _{stg}	- 65 to + 150							°C

¹⁾ Measured at 1 MHz and reverse voltage of 4 V

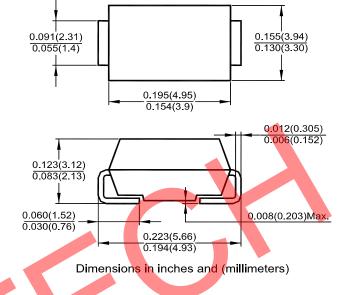
²⁾ P.C.B. mounted 0.55 X 0.55" (14 X 14 mm) copper pad areas.



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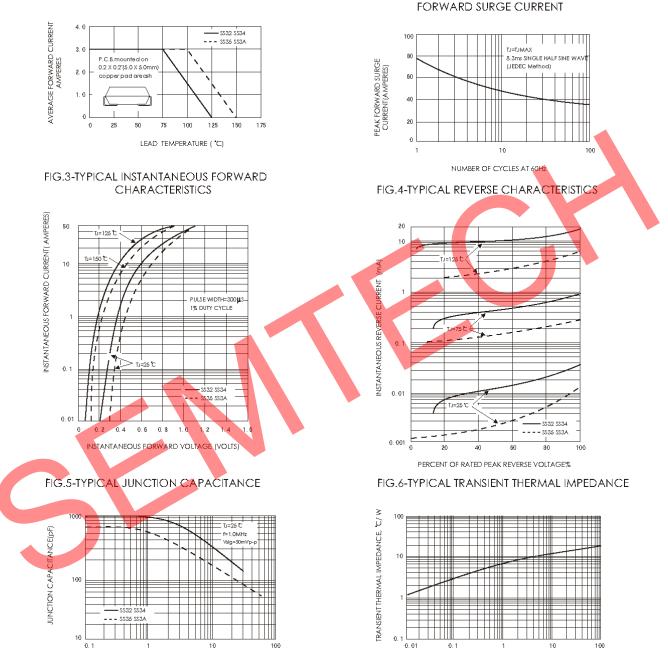
Subsidiary of Sino-Tech International (BVI) Limited





SMB (DO-214AA)

FIG.1-FORWARD CURRENT DERATING CURVE



REVERSE VOLTAGE. VOLTS

T, PULSE DURATION ,sec.

FIG.2-MAXIMUM NON-REPETITIVE PEAK







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