SS32A THRU SS310A

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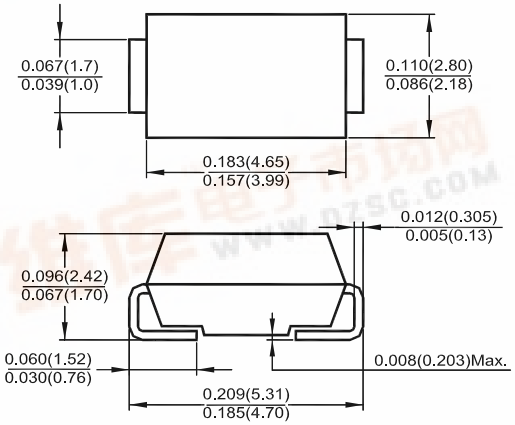
Surface Mount Schottky Barrier Rectifiers

Reverse Voltage - 20 to 100 V
Forward Current - 3 A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency.
- High current capability, low forward voltage drop

SMA (DO-214AC)



Dimensions in inches and (millimeters)

Mechanical Data

- **Case:** SMA (DO-214AC) molded plastic body
- **Terminals:** leads solderable per MIL-STD-750, Method 2026
- **Polarity:** color band denotes cathode end

Maximum Ratings and Electrical Characteristics

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

Parameter	Symbols	SS32A	SS33A	SS34A	SS35A	SS36A	SS38A	SS310A	Unit
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	56	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current	$I_{(AV)}$	3							A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	100							A
Maximum Instantaneous Forward Voltage at 3 A	V_F	0.55			0.7		0.85		V
Maximum DC Reverse Current at Rated DC Blocking Voltage T_A = 25 °C	I_R	0.2							mA
Maximum DC Reverse Current at Rated DC Blocking Voltage T_A = 100 °C	I_R	20			10				mA
Typical Thermal Resistance [1]	$R_{\theta JA}$	88							°C/W
	$R_{\theta JL}$	28							°C/W
Operating Junction Temperature Range	T_j	- 65 to + 125			- 65 to + 150				°C
Storage Temperature Range	T_{stg}	- 65 to + 150							°C

[1] P.C.B. mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas.

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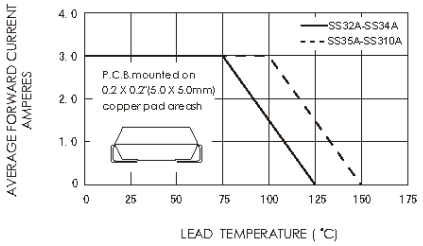
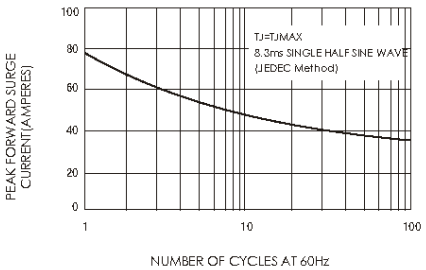
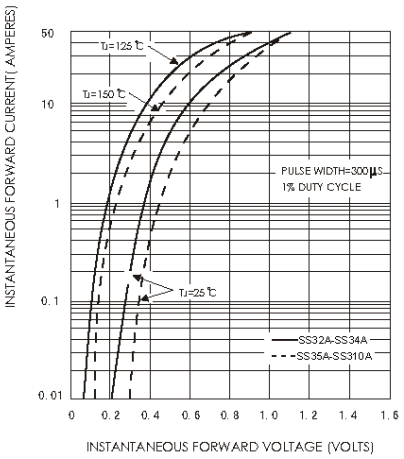
FORWARD CURRENT DERATING CURVE



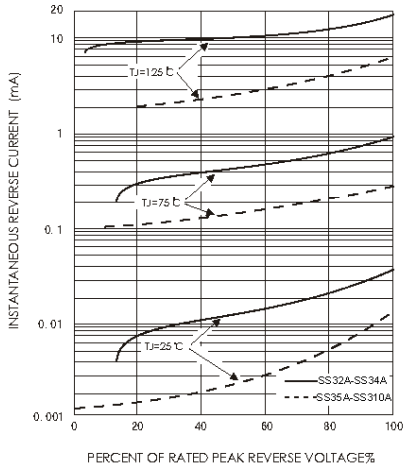
MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



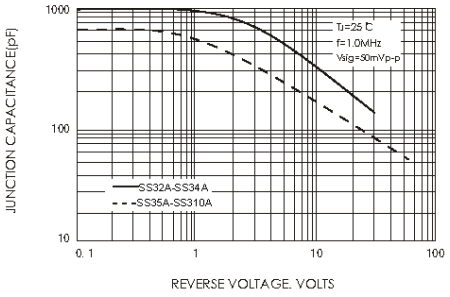
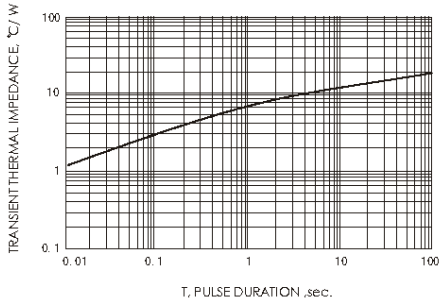
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



TYPICAL REVERSE CHARACTERISTICS



TYPICAL JUNCTION CAPACITANCE



TYPICAL TRANSIENT THERMAL IMPEDANCE