

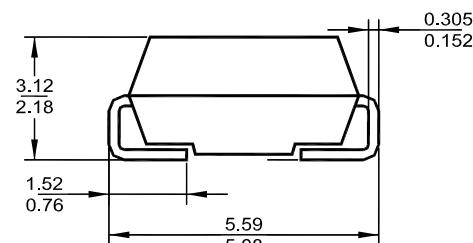
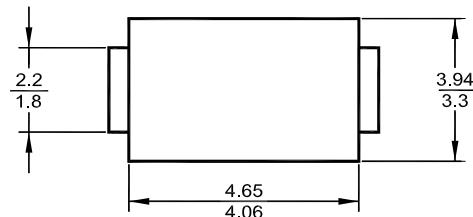
SR32 THRU SR39

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS Reverse Voltage – 20 to 90 V Forward Current – 3 A

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Built-in strain relief, ideal for automated placement
- Low power loss, High efficiency
- High forward surge current capability
- For surface mounted applications
- High temperature soldering guaranteed: 250 °C /10 seconds at terminals.

DO-214AA



Dimensions in millimeters

Mechanical Data

- Case:** Molded plastic body, JEDEC DO-214AA
- Terminals:** leads solderable per MIL-STD-750, method 2026
- Polarity:** Color band denotes cathode end.
- Mounting Position:** Any

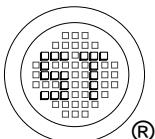
Absolute Maximum Ratings and Characteristics

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

Parameter	Symbols	SR32	SR33	SR34	SR35	SR36	SR38	SR39	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	90	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	64	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	90	V
Maximum Average Forward Rectified Current	I _{F(AV)}				3				A
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	0.5		0.75		0.85			V
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta = 100 °C	I _R			0.5	20				mA
Typical Junction Capacitance ¹⁾	C _{tot}	500		300					pF
Typical Thermal Resistance ²⁾	R _{θJA}		75						°C/W
Operating JunctionTemperature Range	T _J	- 65 to + 125		- 65 to + 150					°C
Storage Temperature Range	T _{stg}		- 65 to + 125						°C

¹⁾ Measured at 1MHz and applied reverse voltage of 4 V DC.

²⁾ P.C.B, mounted with 0.2 × 0.2" (5 × 5 mm) copper pad areas.



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Dated: 06/12/2011 Rev: 01

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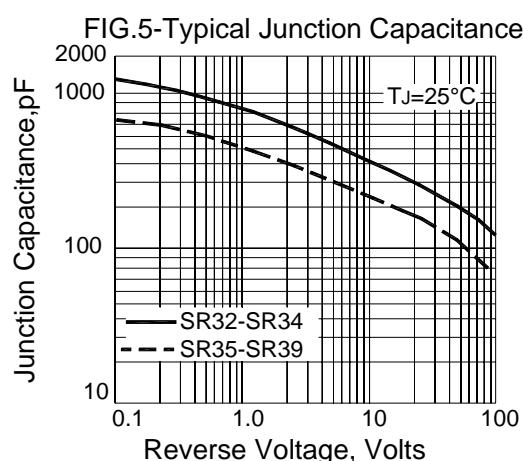
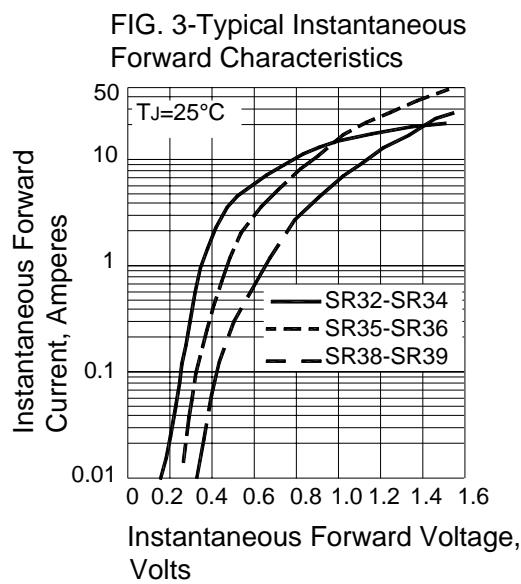
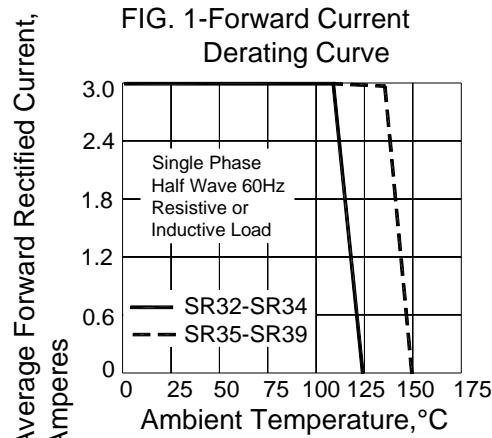


FIG. 2-Maximum Non-Repetitive Peak Forward Surge Current

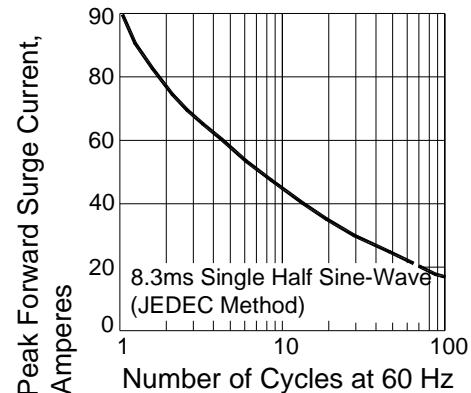


FIG. 4-Typical Reverse Characteristics

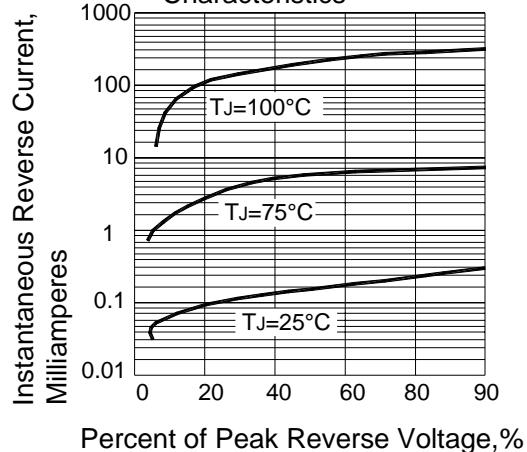
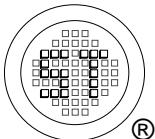
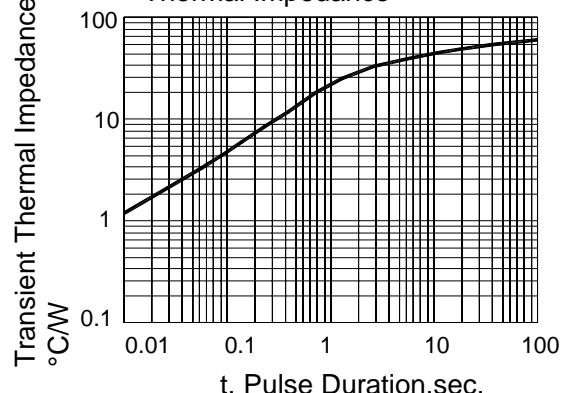


FIG.6-Typical Transient Thermal Impedance



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