

SCHOTTKY DIODES

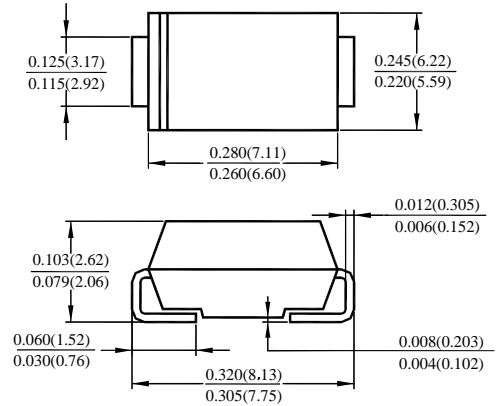
FEATURES

- Low forward voltage
- High current capability
- Low power loss, high efficiency
- For use in low voltage high frequency inverters, freewheeling, and polarity protection applications
- Guarding for overvoltage protection

MECHANICAL DATA

- SMC (DO-214AB) molded plastic body
- Polarity: color band denotes cathode end
- Mounting Position: Any

SS32---SS310



Dimensions in inches and (millimeters)
DO-214AB (SMC)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Parameter	Symbol	SS32	SS33	SS34	SS35	SS36	SS38	SS39	SS310	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	20	30	40	50	60	80	90	100	V
Maximum RMS Voltage	VRMS	14	21	28	35	42	56	63	70	V
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	80	90	100	V
Maximum Average Forward Rectified Current at $T_L = 90^{\circ}C$	IF(AV)	3								A
Peak Forward Surge Current, 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC method)	IFSM	100								A
Maximum Forward Voltage at 3 A ¹⁾	VF	0.5		0.75		0.85			V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	IR	0.5								mA
		20		10						
Typical Thermal Resistance	R JL	17								°C/W
Operating Junction Temperature Range	Tj	- 55 to + 125								°C
Storage Temperature Range	Tstg	- 55 to + 150								°C

1) Pulse test: 300 μs pulse width, 1% duty cycle

SS32---SS310 Typical Characteristics

FIG.1 – FORWARD DERATING CURVE

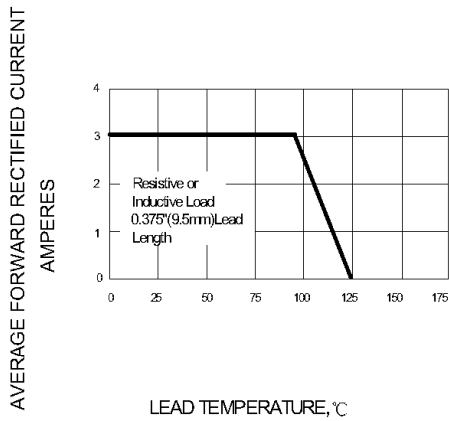


FIG.2 – PEAK FORWARD SURGE CURRENT

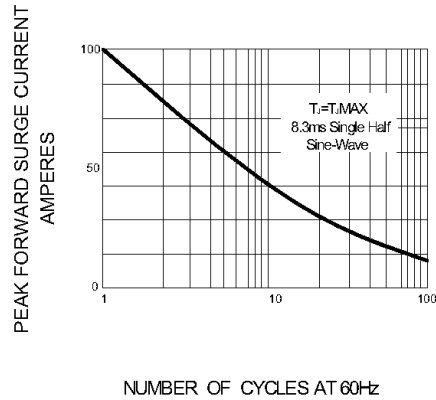


FIG.3 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

