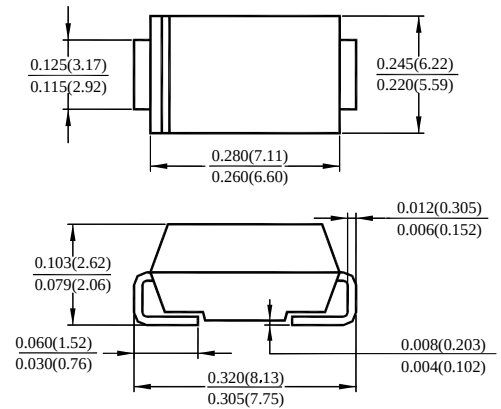


FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- High current capacity
- Built-in strain relief
- Low profile package
- Metal to silicon rectifier, majority carrier conduction
- High surge capacity
- Low power loss, high efficiency
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering : 260°C /10 seconds at terminals

SS32---SS320



Dimensions in inches and (millimeters)

DO-214AB (SMC)

MECHANICAL DATA

Case: Molded plastic, DO-214AB(SMC)

Terminals : Solder plated, solderable per MIL-STD-750, method 2026 guaranteed

Polarity: Color band denotes cathode end

Packaging: 16mm tape per EIA STD RS-481

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%.

Type Number	Symbol	SS 32	SS 33	SS 34	SS 35	SS 36	SS 39	SS 310	SS 315	SS 320	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	90	100	150	200	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	63	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	90	100	150	200	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}	100				70					A
Maximum Instantaneous Forward Voltage (Note 1) @ 3 A T _A =25°C T _A =100°C	V _F	0.5 0.4				0.75 0.65		0.85 0.70		0.95 0.80	V
Maximum Reverse Current @ Rated VR T _A =25°C T _A =100°C T _A =125°C	I _R	0.5					0.1				mA
		10			5		-				
		-					0.5				
Typical Thermal Resistance	R _{θJL} R _{θJA}	17 55									°C/W
Operating Temperature Range	T _J	- 55 to + 125				- 55 to + 150					°C
Storage Temperature Range	T _{STG}	- 55 to + 150									°C

Note 1: Pulse Test with PW=300 usec, 1% Duty Cycle

SS32---SS320 Typical Characteristics

FIG.1 FORWARD CURRENT DERATING CURVE

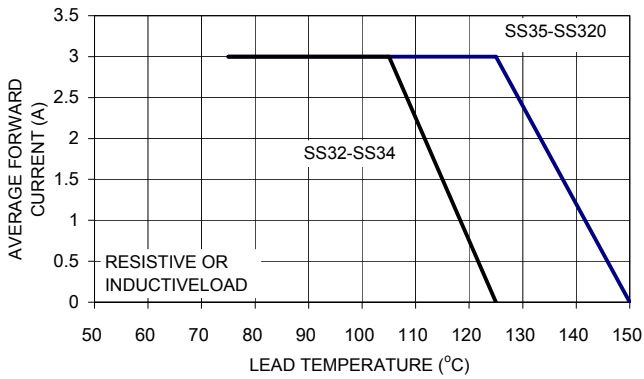


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

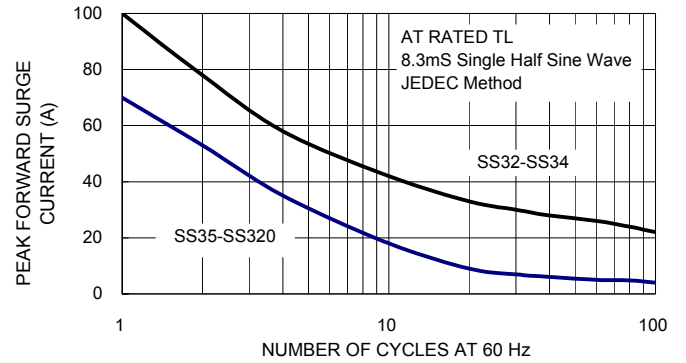


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

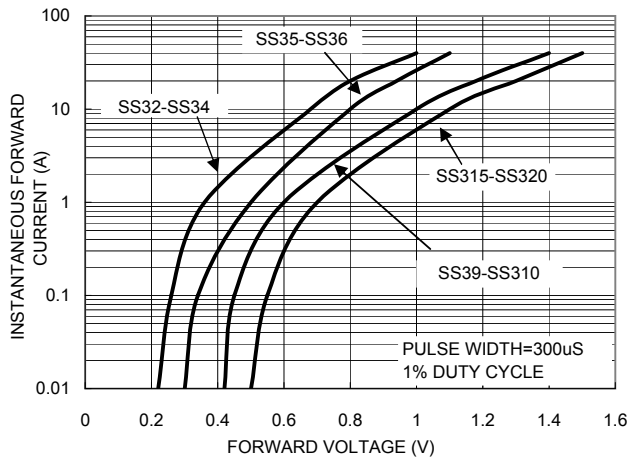


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

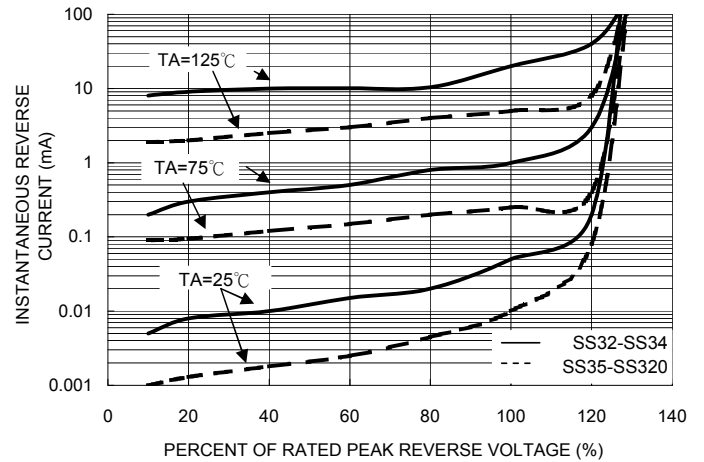


FIG. 5 TYPICAL JUNCTION CAPACITANCE

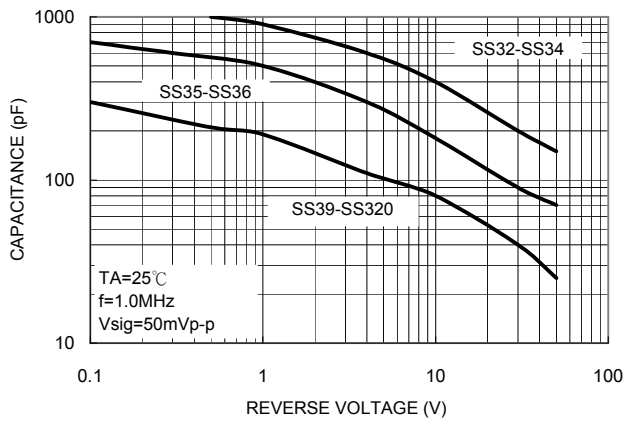


FIG. 6 TYPICAL TRANSIENT THERMAL IMPEDANCE

