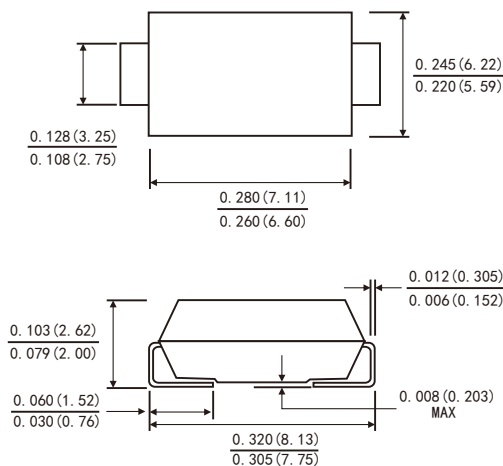


### FEATURES

- Plastic package has Underwriters Laboratory 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
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Component in accordance to RoHS 2011/65/EU



### SMC(DO-214AB)



### MECHANICAL DATA

- Case: JEDEC SMC(DO-214AA) molded plastic body
- Terminals: solder plated ,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%.)

Parameters		Symbols	SS32C	SS33C	SS34C	SS36C	SS310C	SS315C	SS320C	Units
Maximum repetitive peak reverse voltage		VRRM	20	30	40	60	100	150	200	Volts
Maximum RMS voltage		VRMS	14	21	28	42	70	105	140	Volts
Maximum DC blocking voltage		VDC	20	30	40	60	100	150	200	Volts
Maximum average forward rectified current (See Fig.1)		I(AV)	3.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	80							Amps
Maximum instantaneous forward voltage at 3.0 A(Note 1 )		VF	0.55			0.70	0.85	0.90	0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	TA=25°C	IR	100				20			μA
	TA=100°C		5				-			mA
	TA=125°C		-				3			
Typical thermal resistance (Note 2)		RθJA RθJL	55.0 17.0							°C/W
Operating junction temperature range		TJ	-55 to+150							°C
Storage temperature range		TSTG	-55 to+150							°C

Notes: 1.Pulse test: 300us pulse width,1% duty cycle

2. P.C.B. mounted 0.6 X 0.6"(16 X 16mm)copper pad areas

# RATINGS AND CHARACTERISTIC CURVES SS32C THRU SS320C

FIG.1-FORWARD CURRENT DERATING CURVE

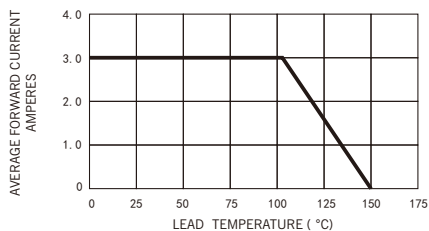


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

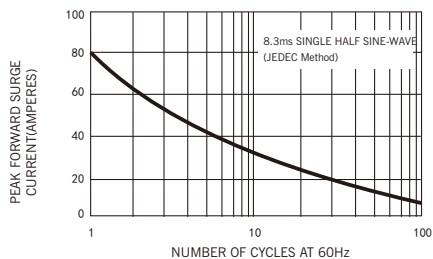


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

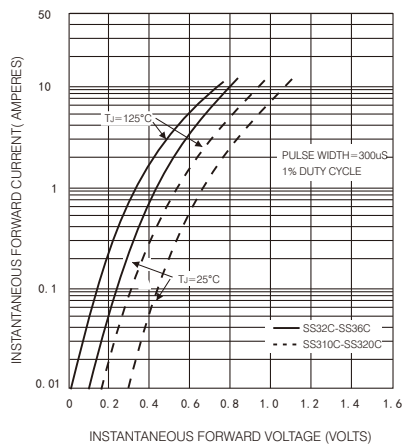


FIG.4-TYPICAL REVERSE CHARACTERISTICS

