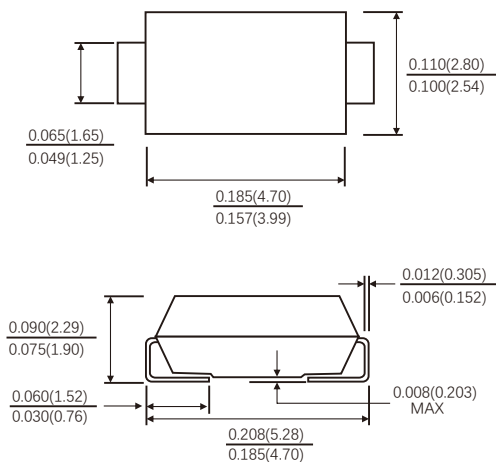


FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- For surface mount applications
- Guard ring for overvoltage protection
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- High surge capability
- 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 2015/863/EU



SMA(DO-214AC)



MECHANICAL DATA

- Case: JEDEC SMA(DO-214AC) molded plastic body
- Terminals: Solder Plated, solderable per MIL-STD-750,method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.002ounce, 0.064 gram

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	SS32	SS33	SS34	SS36	SS310	SS315	SS320	Units
Maximum repetitive peak reverse voltage		V _{RRM}	20	30	40	60	100	150	200	Volts
Maximum RMS voltage		V _{RMS}	14	21	28	42	70	105	140	Volts
Maximum DC blocking voltage		V _{DC}	20	30	40	60	100	150	200	Volts
Maximum average forward rectified current (See Fig.1)		I _{F(AV)}	3.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	80.0							Amps
Maximum instantaneous forward voltage at 3.0 A(Note 1)		V _F	0.55			0.70	0.85	0.90	0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T _J =25°C	I _R	100				5.0			μA
	T _J =100°C		5				-			mA
	T _J =125°C		-				3.0			
Typical junction capacitance(Note 3)		C _J	160			120	85	63	51	pF
Typical thermal resistance (Note 2)		R _{θJA} R _{θRL}	88.0 28.0							°C/W
Operating junction temperature range		T _J	-55 to+150							°C
Storage temperature range		T _{STD}	-55 to+150							°C

- Notes:
- 1.Pulse test: 300 μs pulse width,1% duty cycle
 - 2.PCB mounted 0.55 X 0.55"(14 X 14mm)copper pad areas
 - 3.Measured at 1MHz and reverse voltage of 4.0volts

RATINGS AND CHARACTERISTIC CURVES SS32 THRU SS320

FIG.1-FORWARD CURRENT DERATING CURVE

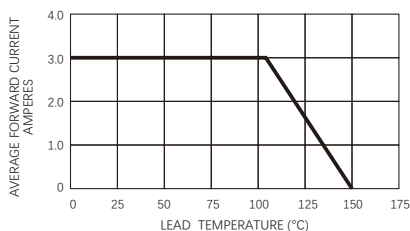


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

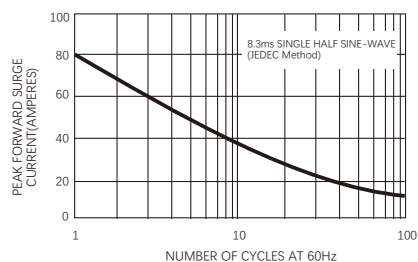


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS OF SS32\33\34

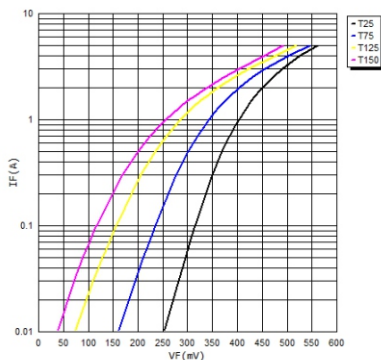


FIG.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS OF SS36

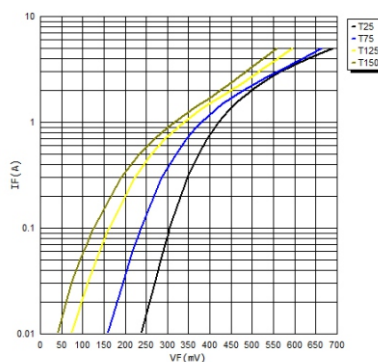


FIG.5-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS OF SS310

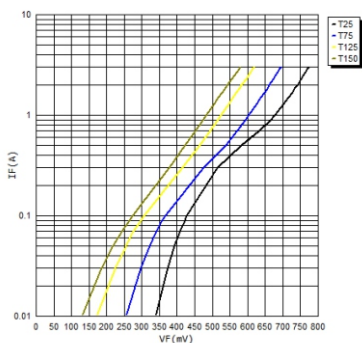
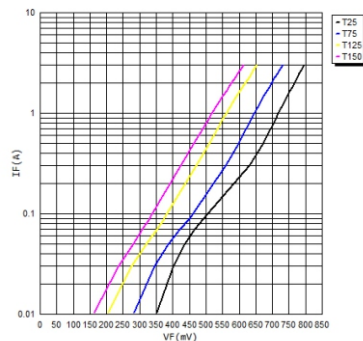


FIG.6-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS OF SS315



RATINGS AND CHARACTERISTIC CURVES SS32 THRU SS320

FIG.7-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS OF SS320

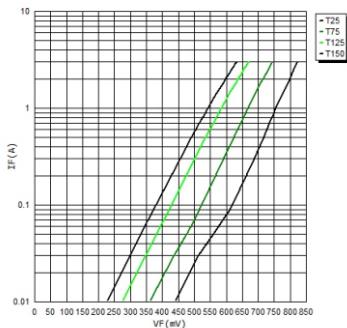


FIG.8-TYPICAL REVERSE CHARACTERISTICS

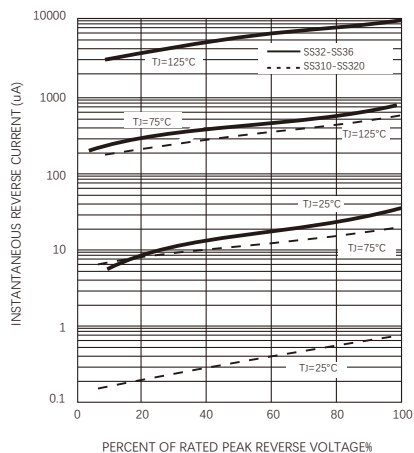
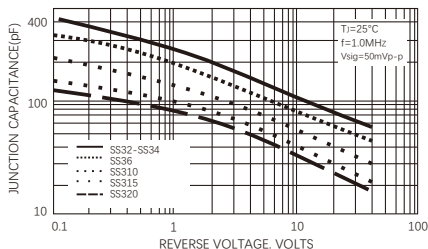
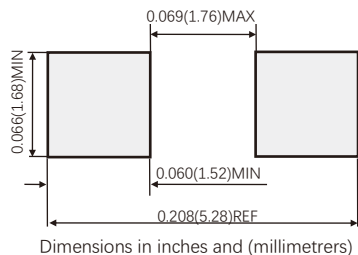


FIG.5-TYPICAL JUNCTION CAPACITANCE



Suggested Pad Layout



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