



S E M I C O N D U C T O R

SS525C

SCHOTTKY BARRIER RECTIFIER
Reverse Voltage - 250Volts
Forward Current - 5.0Amperes

FEATURES

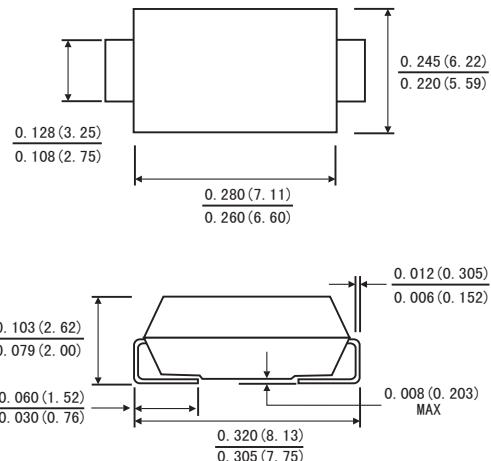
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss ,high efficiency
- High current capability ,low forward voltage drop
- High surge capability
- For use in low 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 2011/65/EU



MECHANICAL DATA

- Case: JEDEC SMC(DO-214AB) molded plastic body
- Terminals: solder plated ,solderable per MIL-STD-750,method 2026
- Polarity: color band denotes cathode end

SMC(DO-214AB)



Dimensions in inches and (millimeters)

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%.)

	Symbols	SS525C				Units
Maximum repetitive peak reverse voltage	V _{RRM}		250			Volts
Maximum RMS voltage	V _{RMS}		175			Volts
Maximum DC blocking voltage	V _{DC}		250			Volts
Maximum average forward rectified current 0.375"(9.5mm) lead length(see fig.1)	I _(AV)		5.0			Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method at rated T _J)	I _{FSM}		150.0			Amps
Forward voltage at 5.0 A(Note 1)	V _F	YTP.	0.83	MAX.	0.91	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T _A =25°C	I _R	20			µA
	T _A =125°C		3			mA
Typical junction capacitance(Note 3)	C _J		400			pF
Typical thermal resistance (Note 2)	R _{θJA} R _{θJL}		55.0 17.0			°C/W
Operating junction temperature range	T _J		-55 to+150			°C
Storage temperature range	T _{STG}		-55 to+150			°C

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

2.Thermal resistance from junction to lead vertical P.C.B. mounted , 0.375"(9.5mm)lead length

3.Measured at 1MHz and reverse voltage of 4.0 volts

RATINGS AND CHARACTERISTIC CURVES SS525C

FIG.1-FORWARD CURRENT DERATING CURVE

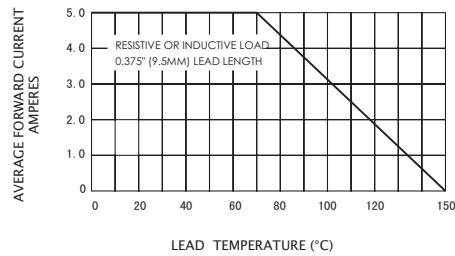


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

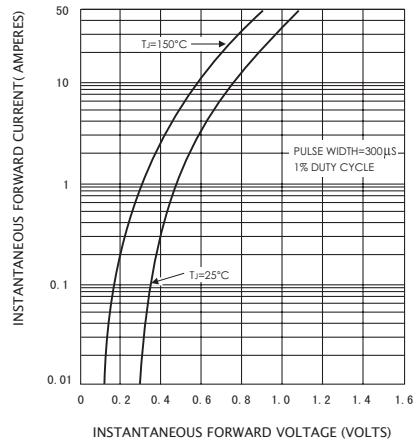
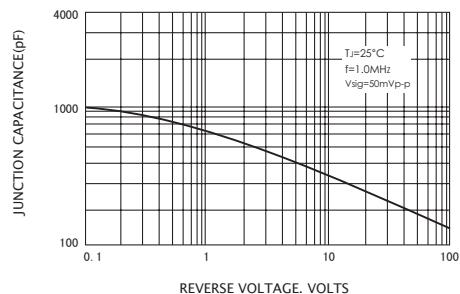


FIG.5-TYPICAL JUNCTION CAPACITANCE



JINAN JINGHENG ELECTRONICS CO., LTD.

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

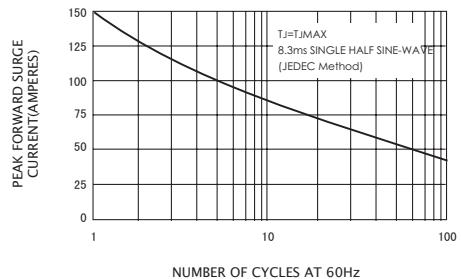


FIG.4-TYPICAL REVERSE CHARACTERISTICS

