CE

CHENYI ELECTRONICS

S2A THRU S2M

SURFACE MOUNT GALSS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 1.5Amperes

FEATURES

. For surface mounted applications

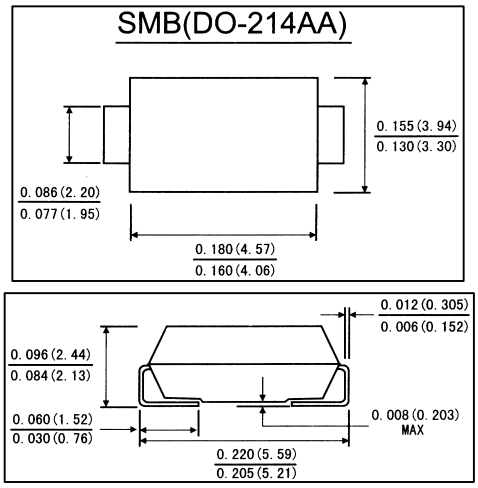
. Glass passivated junction

. Low profile package

. Built-in strain relief , ideal for automated placement

. Plastic package has Underwrites Laboratory Flammability Classification 94V-0

. High temperature soldering guaranteed: 250℃/10 seconds, at terminals



Dimensions in inches and (millimeters)

MECHANICAL DATA

. **Case:** JEDEC SMA(DO-214AA) molded plastic

. **Terminals:** Plated axial leads solderable per MIL-STD-750,method 2026

. **Polarity:** Color band denotes cathode end

. **Mounting Position:** Any

. **Weight**: 0.003 ounce, 0.093 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	Symbols	S2A	S2B	S2D	S2G	S2J	S2K	S2M	Units
Maximum Recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	100	Volts
Maximum average forward rectified current at TL=100℃	$I_{(AV)}$	1.5							Amp
Peak forward surge current (8.3ms half sing wave superimposed on rated load (JEDEC method)T_L=100℃	I_{FSM}	50.0							Amps
Maximum instantaneous forward voltage at 1.0 A	V_F	1.15							Volts
Maximum reverse recovery time(Note 1) T_A=25℃	I_R	1.0							μA
current at rated DC Blocking Voltage T_A=125℃		125							
Typical Thermal Resistance(Note 2)	$R_{\theta JL}$ / $R_{\theta JA}$	16.0 / 53.0							℃/W
Typical reverse recovery time(Note 3)	Trr	2.0							μS
Typical junction capacitance(Note 1)		30.0							pF
Operating and storage temperature range	T_J T_{STG}	-55 to +150							℃

Notes: 1.Measured at 1MHz and applied reverse voltage of 4.0V DC.

2.Thermal resistance from junction to ambient and from junction to lead mounted on 0.2 X 0.2"(5.0 X 5.0mm) copper pad areas. 3.Reverse recovery test conditions:IF=0.5A,IR=1.0A,Irr=0.25A.

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RATINGS AND CHARACTERISTIC CURVES S2A THRU S2M

FLG.1-FORWARD CURRENT DERATING CURVE

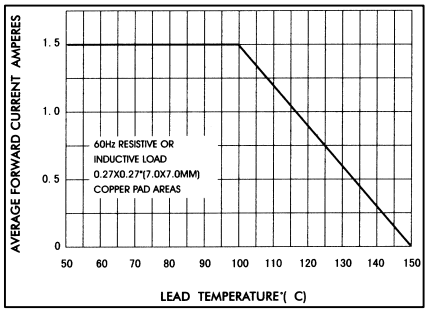

FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

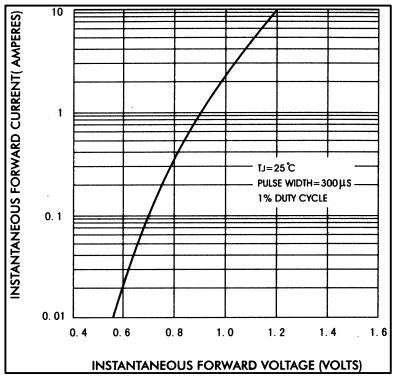

FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

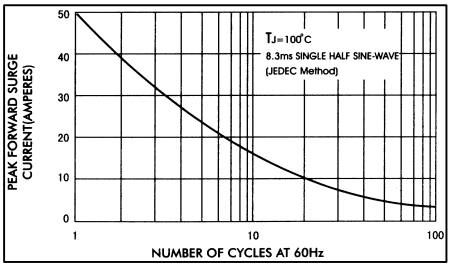

FIG.4-TYPICAL REVERSE CHARACTERISTICS

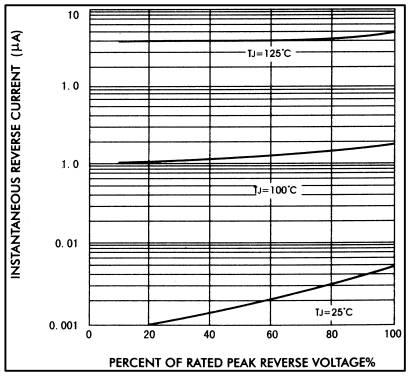

FIG.5-TYPICAL JUNCTION CAPACITANCE