

SHENZHEN FAITH TECHNOLOGY CO.,LTD

SURFACE MOUNT GLASS PASSIVATED RECTIFIER

S2A THRU S2M

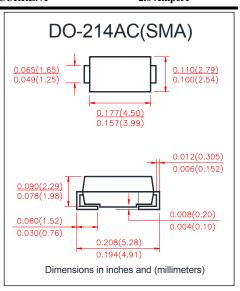
VOLTAGE RANGE CURRENT 50 to 1000 Volts 2.0 Ampere

FEATURES

- Plastic package has underwrites laboratory flammability Classification 94V-0
- For surface mounted applications
- Low profile package
- Built-in strain relief, ideal for automated placement
- Glass Passivated chip junction
- High temperature soldering guaranteed 250°C/10 second at terminals

MECHANICAL DATA

- Case: JEDED DO-214AC molded plastic over glass passivated chip
- 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

MAXIMUM RATINGS & THERMAL CHARACTERISTICS

	SYMBOLS	S2A	S2B	S2D	S2G	S2J	S2K	S2M	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	$V_{ m RMS}$	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T_L =100°C	I _{F(AV)}	2.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method) T_L =100 $^{\circ}$ C	I_{FSM}	50							Amps
Tourisal Thousand Desistance (MOTE 1)	$R_{ heta JA}$	53 16							°C/W
Typical Thermal Resistance (NOTE 1)	$R_{ heta JL}$								
Operating and Storage Temperature Range	T_{J}, T_{STG}	-55 to +150						$^{\circ}$ C	

ELECTRICAL CHARACTERISTICS

		SYMBOLS	S2A	S2B	S2D	S2G	S2J	S2K	S2M	UNIT
Maximum Instantaneous Forward Voltage at 1.5A		V_{F}	1.10							Volts
Maximum DC Reverse Current at rated DC Blocking Voltage	$T_A = 25$ °C $T_A = 125$ °C	I_R	5.0 200						μA	
Typical Reverse Recovery Time at I_F =0.5A, I_R =1.0A, I_{RR} =0.25A,		T_{rr}	2.5							μs
Typical junction capacitance at 4.0V, 1MHz C _J		C_{J}	30							рF

Notes:

1. Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B.with 0.3×0.3 $^{\prime\prime}$ (8.0 × 8.0mm) copper pad areas.



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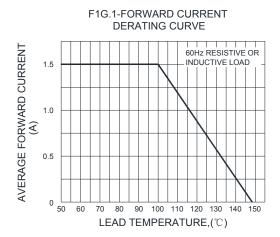
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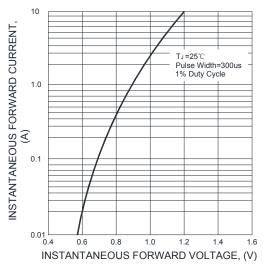
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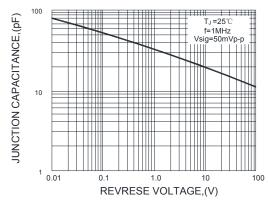
RATINGS AND CHARACTERISTIC CURVES



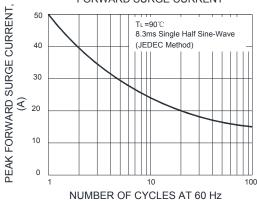
F1G.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



F1G.5-TYPICAL JUNCTION CAPACITANCE



F1G.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



F1G.4-TYPICAL REVERSE CHARACTERISTICS

