



FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.

TEL: 852-2790 0314 FAX: 852-2790 0206



MASTER INSTRUMENT CORPORATION

SURFACE MOUNT GLASS PASSIVATED RECTIFIER
S2A THRU S2M

VOLTAGE RANGE 50 to 1000 Volts
Forward Current 1.5 Amperes

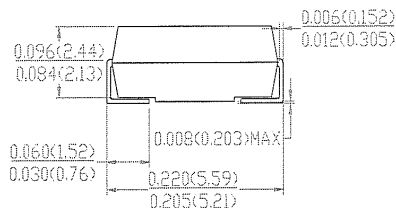
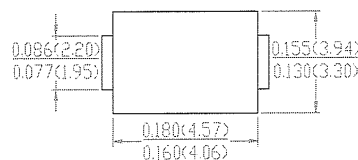
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mount applications
- Low profile package
- Built-in strain relief, ideal for automated placement
- Glass Passivated chip junction
- High temperature soldering:
250°C/10 seconds at terminals

MECHANICAL DATA

- Case: JEDED SMB (DO-214AA) molded plastic body
- Terminals: Solder Plated, solderable per MIL-STD-750 Method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.003ounce, 0.093gram

SMB(DO-214AA)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Resistive or inductive load.

		SYMBOLS	S2A	S2B	S2D	S2G	S2J	S2K	S2M	UNITS
Maximum Repetitive 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	1000	Volts
Maximum Average Forward Rectified Current at T _L =100°C		I _(AV)	1.5							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) T _L =100°C		I _{FSM}	50							Amps
Maximum Instantaneous reverse of 1.5A		V _F	1.15							Volts
Maximum instantaneous Reverse Current at rated DC blocking voltage	T _A =25 °C	I _R	1.0							μA
	T _A =125 °C		125							
Typical thermal Resistance (Note 1)		R _{QA} R _{QJA}	53 16							°C/W
Operating and Storage Temperature Range		T _J	-55 to +150							°C
Typical reverse recovery time at I _F =0.5A,I _R =1.0A,I _{rr} =0.25A		T _{rr}	2.0							μS
Typical junction capacitance at 4.0V,1MHz		C _J	30							pF
Storage temperature range		T _{STG}	-55 to +150							°C

NOTES:

1. Thermal resistance from junction to ambient and from junction to lead mounted on
2. P.C.B. Mounted with 0.3×0.3" (8.0×8.0mm) copper pad areas.



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RATING AND CHARACTERISTIC CURVES S2A Thru S2M

