

SURFACE MOUNT GLASS PASSIVATED RECTIFIER

S3A THRU S3M

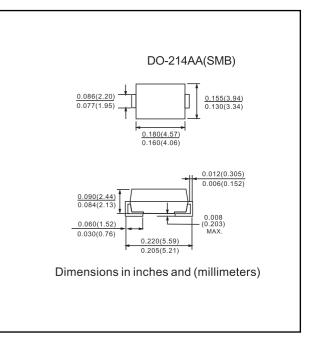
50V-1000V 3.0A

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Easy pick and place
- glass passivated iunction
- High temperature soldering guaranteed: 260°C /10 seconds at terminals

Mechanical Data

- Case: Molded Plastic
- Case Material UL Flammability Rating Classification 94V-0
- Moisture sensitivity: Level 1 per J-STD-020A
- Terminals: Solder Plated Terminal Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band or Cathode Notch
- Weight: SMB 0.093 grams (approx) SMC 0.21 grams (approx)



S3D Characteristic Symbol S3A S3B S3G S3J S3K S3M Unit Peak Repetitive Reverse Voltage Vrrm Working Peak Reverse Voltage 100 200 400 800 1000 VRWM 50 600 V **DC Blocking Voltage** VR **RMS Reverse Voltage** VR(RMS) 35 70 140 280 420 560 700 V Average Rectified Output Current $@T_{L} = 75^{\circ}C$ lo 3.0 А Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on IFSM 100 А rated load (JEDEC Method) V Forward Voltage $@I_{F} = 3.0A$ Vгм 1.20 @T_A = 25°C 5.0 Peak Reverse Current IRM μA At Rated DC Blocking Voltage @T_A = 125°C 250 Reverse Recovery Time (Note 1) 2.5 μS trr Typical Junction Capacitance (Note 2) Cj 60 pF Typical Thermal Resistance (Note 3) 13 K/W Rejl °C Operating and Storage Temperature Range -65 to +150 Tj, TSTG

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Note: 1. Measured with I_{F} = 0.5A, I_{R} = 1.0A, I_{rr} = 0.25A,

2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.

3. Mounted on P.C. Board with 8.0mm² land area.



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