

Super Fast Surface Mount Rectifiers

DO-214AA(SMB)



| | (|) | |
|---|---|---|---|
| = | | | = |

Primary characteristics

 $I_{F(AV)}$

 V_{RRM}

 I_{FSM}

 I_{RM}

V_{FM} at I_F=1A

T_J max.

Features

- ROHS compliant
- Glass passivated chip
- High forward surge capability
- Meet MSL level 1, per J-STD-020 LF maximum peak of 250 °C
- Solder dip 260 °C / 40S
- Component in accordance to ROHS 2002/95/EC and WEEE 2002/96/WC
- UL recognition, file number E342874

Applications

Ideal for ac-to-dc bridge full wave rectification suck as SMPS, home applianes, office equipment, indusrial automation applicatios

Mechanical data

- DO-214AA(SMB)
- Epoxy meets UL 94 V-0 flammability rating
- Terminals: Tin plated leads.
- Polarity: As marked.
- Mounting Torque:10cm-kg(8.8 inches-lbs)max.
- Recommended Torque:5.7 cm-kg(5 inches-lbs)

Maximum rating (Ta=25°C unless otherwise noted)

1A

200V

40A

2uA

0.875

150 °C

| Parameter | | | DO-214AA(SMB) | Unit |
|---|-----------|--------------------|---------------|------|
| | | Sym | MURS120 | |
| Max. repetitive peak reverse voltage | | V _{RRM} | 200 | V |
| Max. RMS reverse voltage | | V _{RMS} | 200 | V |
| Max. DC blocking voltage | | V _{DC} | 200 | V |
| Max. average forward current | | I _{F(AV)} | 1 | А |
| Non-repetitive peak forward surge current 8.3ms single half-sine-wave | | I _{FSM} | 40 | А |
| Max. instantaneous forward voltage drop per diode | | V _{FM} | 0.875 | V |
| Max. instantaneous reverse current | Ta=25 °C | | 2 | |
| at rated DC blocking voltage | Ta=125 °C | I _{RM} | 200 | μA |
| Operating junction temperature | | TJ | -55 ~ +150 | °C |
| Storage temperature | | T _{STG} | -55 ~ +150 | °C |
| Maximum reverse recovery time (Note1) | | trr | 25 | nS |
| Typical thermal resistance (Note2) | | R J-A | 13 | °C/W |

Notes:

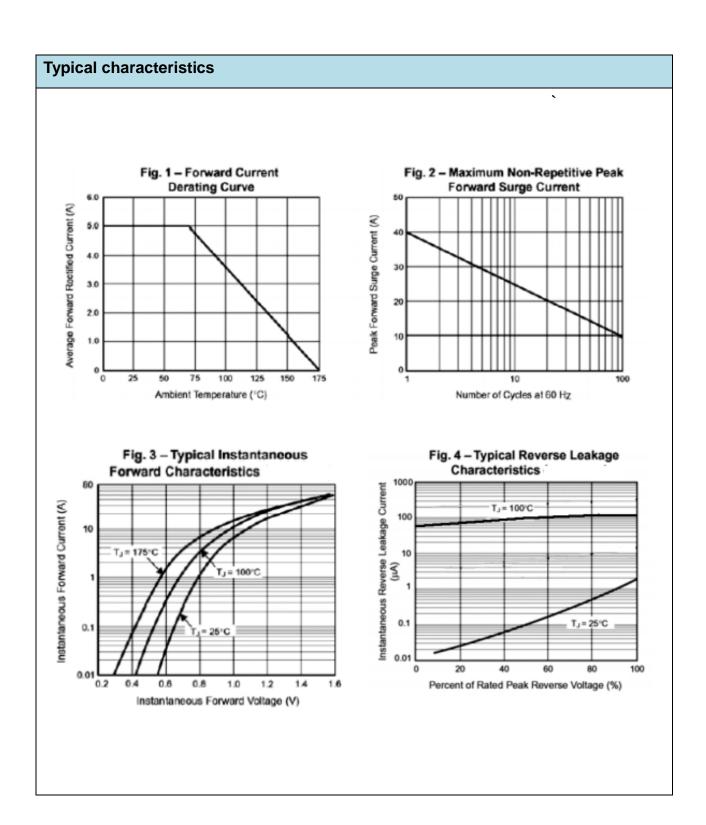
¹ Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

² The thermal resistance from junction to ambient, case or mount, mounted on P.C.B with 5x5mm copper pads, 2 OZ, FR4 PCB



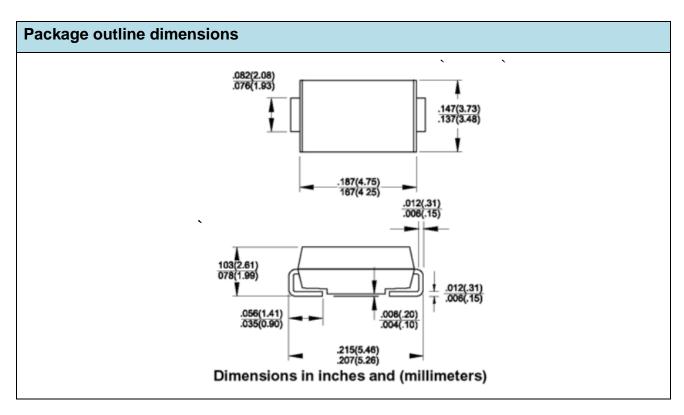
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| Ordering information (Example) | | | | | | |
|--------------------------------|-----------------|------------------------|---------------|---------------|--|--|
| PREFERRED | UNIT WEIGHT (g) | PREFERRED PACKAGE CODE | BASE QUANTITY | DELIVERY MODE | | |
| MURS120 | | | | | | |





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