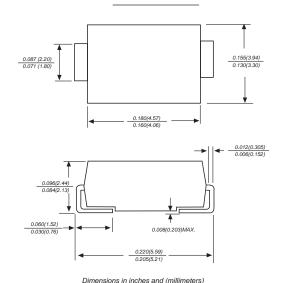


RS2A THRU RS2M

SURFACE MOUNT FAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current -2.0 Ampere

SMB/DO-214AA



FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- ◆ Fast switching for high efficiency
- Low reverse leakage
- Built-in strain relief, ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 260°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AA molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.003 ounce, 0.093 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

| MDD Catalog Number | SYMBOLS | RS2A | RS2B | RS2D | RS2G | RS2J | RS2K | RS2M | UNITS |
|---|-------------------|-------------|------|------|------|------|------|------|-------|
| Maximum repetitive peak reverse voltage | Vrrm | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | VOLTS |
| Maximum RMS voltage | VRMS | 35 | 70 | 140 | 280 | 420 | 560 | 700 | VOLTS |
| Maximum DC blocking voltage | VDC | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | VOLTS |
| Maximum average forward rectified current at TL=90℃ | l _(AV) | 2.0 | | | | | | | Amp |
| Peak forward surge current | | | | | | | | | |
| 8.3ms single half sine-wave superimposed on | IFSM | 50.0 | | | | | | | Amps |
| rated load (JEDEC Method) | | | | | | | | | |
| Maximum instantaneous forward voltage at 2.0A | VF | 1.3 | | | | | | | Volts |
| Maximum DC reverse current Ta=25°C | 5.0 | | | | | | μΑ | | |
| at rated DC blocking voltage Ta=100℃ | lR | 50.0 | | | | | | μЛ | |
| Maximum reverse recovery time (NOTE 1) | trr | | 15 | 0 | | 250 | 50 | 00 | ns |
| Typical junction capacitance (NOTE 2) | Cı | 50.0 | | | | | | pF | |
| Typical thermal resistance (NOTE 3) | Reja | 15.0 | | | | | | °C/W | |
| Operating junction and storage temperature range | ТЈ,Тѕтс | -50 to +150 | | | | | | | °C |

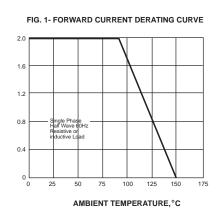
Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A 2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

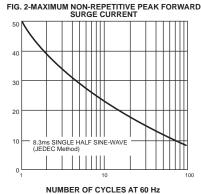


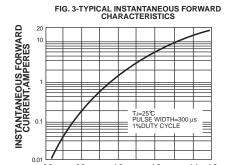
RATINGS AND CHARACTERISTIC CURVES RS2A THRU RS2M



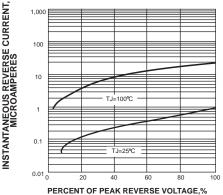




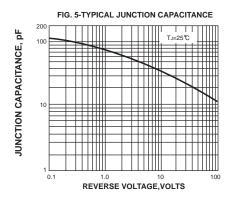


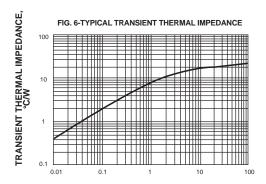












t,PULSE DURATION,sec.

The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!



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