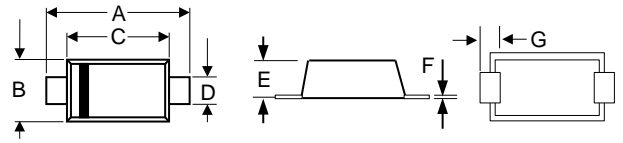


R20AW THRU R20MW

2.0 Amp. Glass Passivated Rectifiers

Features

- * Low reverse leakage
- * Easy pick and place
- * High temp soldering: 260°C for 10 seconds at terminals
- * Metallurgically bonded construction



RoHS
COMPLIANT



| DIM. | SOD-123F | | | |
|------|----------|-------|------|------|
| | INCHES | | MM | |
| | MIN | MAX | MIN | MAX |
| A | 0.138 | 0.154 | 3.50 | 3.90 |
| B | 0.067 | 0.075 | 1.70 | 1.90 |
| C | 0.102 | 0.114 | 2.60 | 2.90 |
| D | 0.031 | 0.043 | 0.80 | 1.10 |
| E | 0.035 | 0.045 | 0.88 | 1.15 |
| F | 0.004 | 0.008 | 0.10 | 0.20 |
| G | 0.028 | 0.035 | 0.70 | 0.90 |

Mechanical Data

- * Case: SOD-123F Molded plastic
- * Terminals: Solderable per MIL-STD-750, Method 2026
- * Polarity: Color band denotes cathode end
- * Mounting Position: Any

Maximum Ratings and Electrical Characteristics (T_A=25°C unless otherwise noted)

| Type Number | Symbols | R20AW | R20BW | R20DW | R20GW | R20JW | R20KW | R20MW | Unit |
|---|--------------------|-------------|-------|-------|-------|-------|-------|-------|------|
| Maximum Repetitive Peak Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum D.C Blocking Voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current | I _{F(AV)} | 2 | | | | | | | A |
| Peak Forward Surge Current, 8.3ms single half sine-wave | I _{FSM} | 60 | | | | | | | A |
| Maximum Instantaneous Forward Voltage at 2.0A | V _F | 1.15 | | | | | | | V |
| Maximum D.C Reverse Current @ T _J =25°C | I _R | 5 | | | | | | | μA |
| at Rated D.C Blocking Voltage @ T _J =125°C | | 100 | | | | | | | |
| Typical Junction Capacitance (Note1) | C _J | 30 | | | | | | | pF |
| Typical Thermal Resistance (Note2) | R _{θJA} | 180 | | | | | | | °C/W |
| Operating Junction Temperature Range | T _J | -55 to +150 | | | | | | | °C |
| Storage Temperature Range | T _{STG} | -55 to +150 | | | | | | | °C |

Note 1: Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Note 2: Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, P.C.B. mounted

Ratings and Characteristic Curves

FIG. 1 FORWARD CURRENT DERATING CURVE

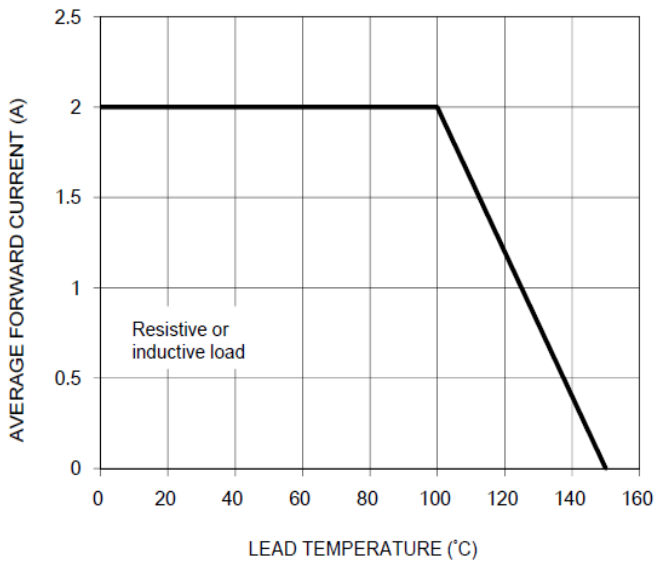


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

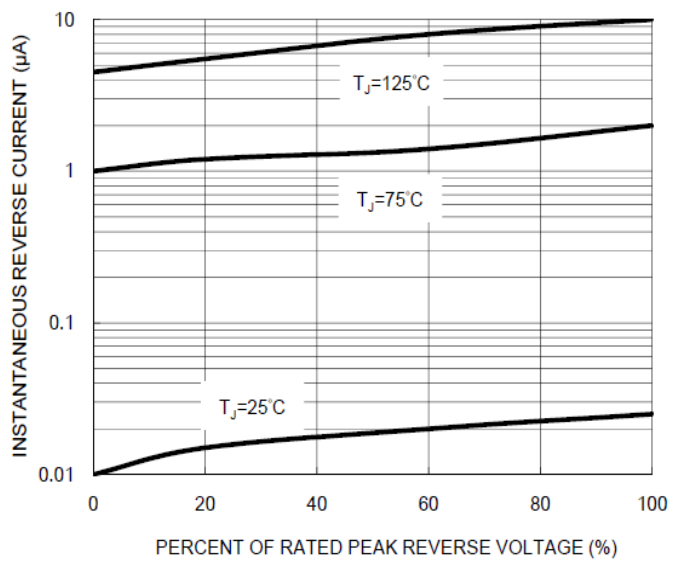


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

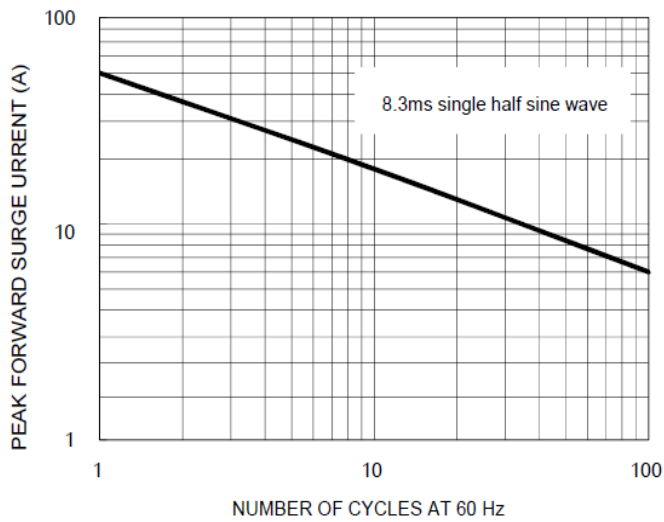


FIG. 4 TYPICAL FORWARD CHARACTERISTICS

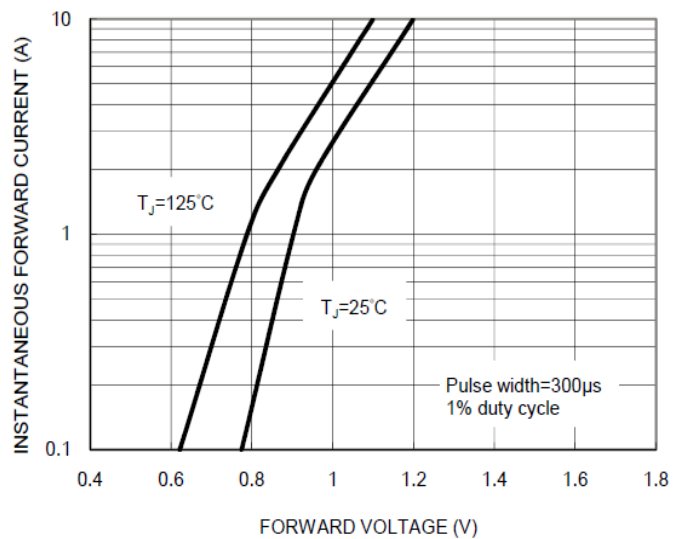
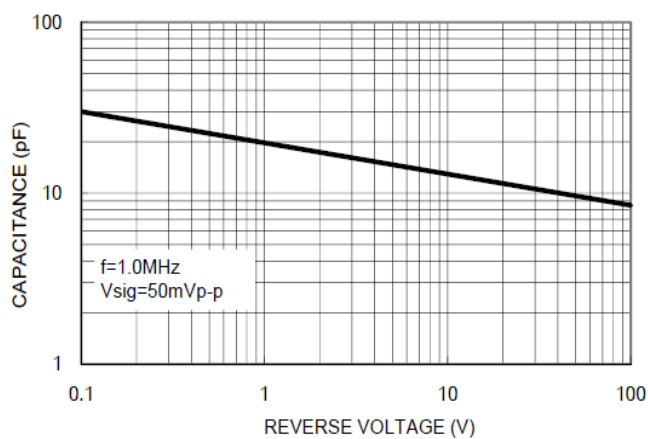


FIG. 5 TYPICAL JUNCTION CAPACITANCE





R20AW THRU R20MW

2.0 Amp. Glass Passivated Rectifiers

Ordering Information

| Part No. | Package | Packing Code | Packing |
|------------------|----------|--------------|--------------|
| R20AW THRU R20MW | SOD-123F | R30 | 3000pcs/Reel |

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