



SS2020FL~SS20100FL

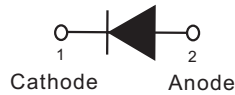
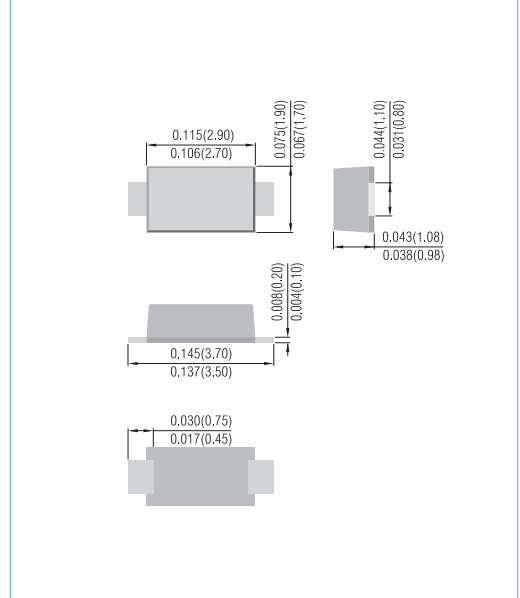
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 20 to 100 Volts **CURRENT** 2.0 Amperes

SOD-123FL Unit: inch (mm)

FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Low power loss, high efficiency
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ABSOLUTE RATINGS

| PARAMETER | SYMBOL | SS2020FL | SS2030FL | SS2040FL | SS2060FL | SS20100FL | UNITS |
|---|-------------|----------|----------|----------|----------|-----------|-------|
| Marking Code | | GM | GN | GP | GQ | GR | |
| Reverse Voltage | V_R | 20 | 30 | 40 | 60 | 100 | V |
| Peak Reverse Voltage | V_{RRM} | 20 | 30 | 40 | 60 | 100 | V |
| Average Rectified Current at $T_A=75^\circ\text{C}$ | $I_{F(AV)}$ | 2.0 | | | | | A |
| Non-repetitive Peak Forward Surge Current at $t=8.3\text{ms}$ | I_{FSM} | 50 | | | | | A |

ELECTRICAL AND THERMAL CHARACTERISTICS

| PARAMETER | SYMBOL | SS2020FL | SS2030FL | SS2040FL | SS2060FL | SS20100FL | UNITS |
|---|-----------------|-------------|----------|----------|----------|-----------|--------------------|
| Minimum Reverse Breakdown Voltage at $I_R=500\mu\text{A}$ | V_R | 20 | 30 | 40 | 60 | 100 | V |
| Maximum Forward Voltage at $I_F=2.0\text{A}$ | V_F | 0.55 | | | 0.70 | 0.85 | V |
| Reverse Leakage Current at V_{RRM} | I_R | 500 | | | | | μA |
| Typical Thermal Resistance, Junction to Ambient | $R_{\theta JA}$ | 60 | | | | | $^\circ\text{C/W}$ |
| Operating Junction and Storage Temperature Range | T_J, T_{STG} | -50 to +125 | | | | | $^\circ\text{C}$ |

Note.1 Mounted with minimum recommended pad size, PC Board FR4.
2. $T_A=25^\circ\text{C}$ unless otherwise specified.