



WEET Technology Company Limited

FAST RECOVERY RECTIFIER

RS1501FL THRU RS1510FL

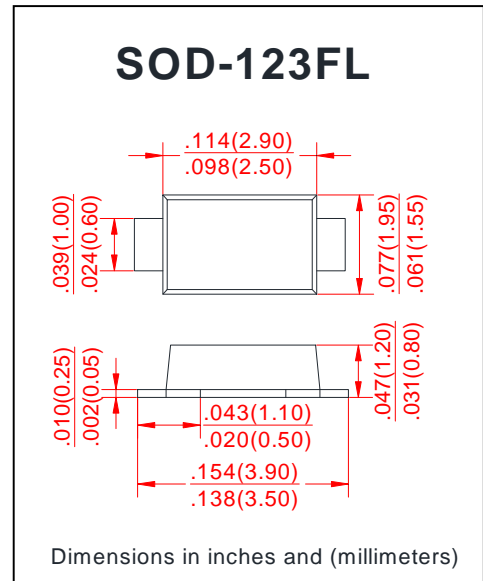
VOLTAGE RANGE 100 to 1000 Volts
CURRENT 1.5Ampere

FEATURES

- Fast recovery glass passivated chip
- Low forward voltage drop
- Low leakage current
- High forward surge capability
- High temperature soldering:
260°C/10S at terminals
- Component in accordance to
ROHS 2002/95/1 and WEEE 2002/96/EC

MECHANICAL DATA

- Case: JEDEC SOD-123FL mold plastic
Body over glass passivated chip
- Terminals: Solder plated, solderable per
J-STD-002B and JESD22-B102D
- Polarity: Laser band denote cathode band



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 derate current by 20%

| | SYMBOLS | RS15 01FL | RS15 02FL | RS15 04FL | RS15 06FL | RS15 08FL | RS15 10FL | UNITS |
|--|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum RMS Voltage | V_{RMS} | 70 | 140 | 280 | 420 | 560 | 700 | Volts |
| Maximum DC Blocking Voltage | V_{DC} | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum Average Forward Rectified Current | $I_{(AV)}$ | 1.5 | | | | | | Amps |
| Peak Forward Surge Current 8.3mS single half sine-wave superimposed on rated load (JEDEC method) | I_{FSM} | 50 | | | | | | Amps |
| Maximum Instantaneous Forward Voltage at 1.5A | V_F | 1.3 | | | | | | Volts |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | $T_A = 25^\circ C$ | 5.0 | | | | | | μA |
| | $T_A = 125^\circ C$ | 100 | | | | | | |
| Maximum Reverse Recovery Time(NOTE1) | T_{RR} | 150 | | | 250 | 500 | | nS |
| Typical Junction Capacitance (NOTE2) | C_J | 9 | | | | | | pF |
| Operating and Storage Temperature Range | T_J, T_{STG} | -55 to +150 | | | | | | °C |

Notes:

- 1.Reverse Recovery Test Conditions: $I_f=0.5A, I_r=1.0A, I_{rr}=0.25A$.
- 2.Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.



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FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

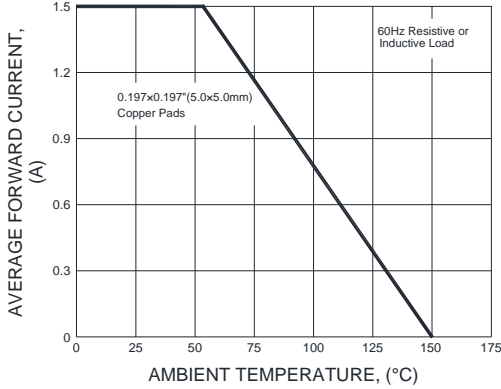


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

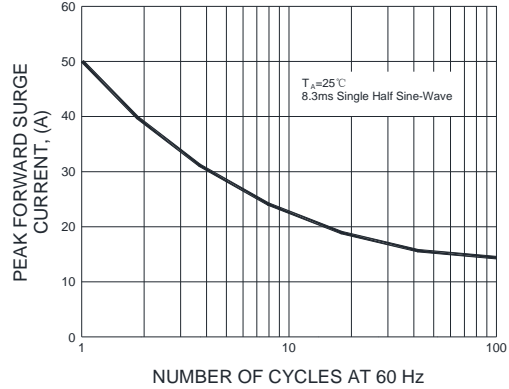


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

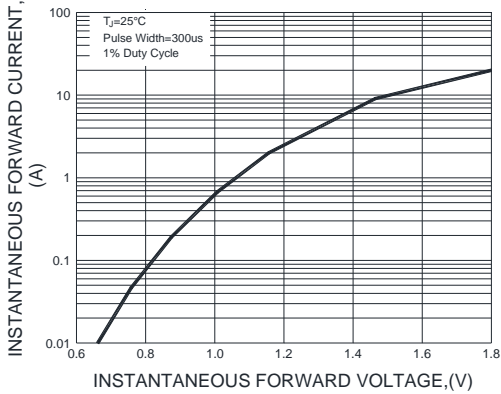


FIG.4-TYPICAL REVERSE CHARACTERISTICS

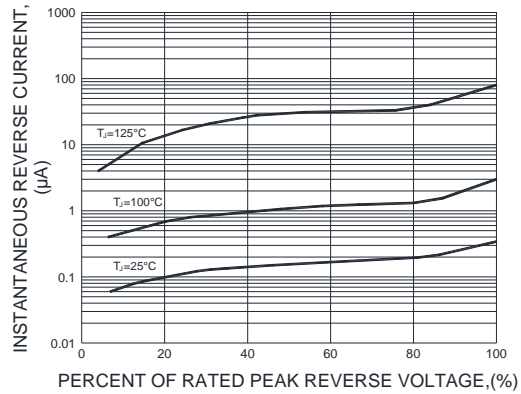
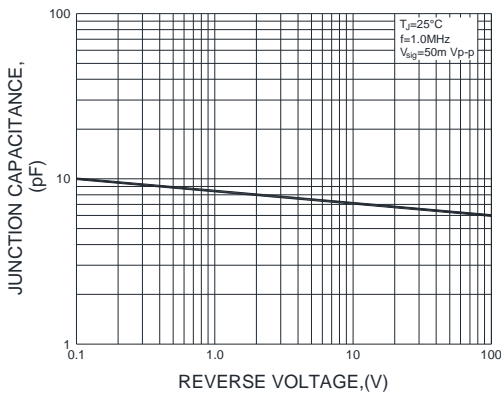


FIG.5-TYPICAL JUNCTION CAPACITANCE



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.