



3.0 Amp. Surface Mount Low V_F Schottky Barrier Rectifier

| | | | |
|--|---|-------------------------|--|
| DO-214AB / SMC  | Voltage 20 V to 40 V | Current 3.0 A | |
| | FEATURES <ul style="list-style-type: none"> • Low profile package • Ideal for automated placement • Low power losses, high efficiency • High surge current capability • Guarding for overvoltage protection • Low forward voltage drop • Solder dip 260°C, 10s • Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC • Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C | |  RoHS COMPLIANT |
| | MECHANICAL DATA <ul style="list-style-type: none"> • Case: DO-214AB (SMC). Epoxy meets UL 94V-0 flammability rating. • Polarity: Color band denotes cathode end. • Terminals: Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test. | | |
| | TYPICAL APPLICATIONS Used in low voltage high frequency inverters, freewheeling, dc-to-dc converters, and polarity protection applications. | | |

Maximum Ratings and Electrical Characteristics at 25 °C

| | | FSSL32 | FSSL33 | FSSL34 |
|--------------|--|-----------------|--------|--------|
| Marking code | | L32 | L33 | L34 |
| V_{RRM} | Maximum Recurrent Peak Reverse Voltage (V) | 20 | 30 | 40 |
| V_{RMS} | Maximum RMS Voltage (V) | 14 | 21 | 28 |
| V_{DC} | Maximum DC Blocking Voltage (V) | 20 | 30 | 40 |
| $I_{F(AV)}$ | Maximum Average Forward Rectified Current at T_C (See graphic) | 3.0 A | | |
| I_{FSM} | Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method) | 100 A | | |
| T_j | Operating Temperature Range | -55°C to +125°C | | |
| T_{stg} | Storage Temperature Range | -55°C to +150°C | | |

Electrical Characteristics at $T_{amb} = 25\text{ °C}$

| | | | |
|--------------------------------|---|--------------------|--------|
| V_F | Maximum Instantaneous Forward Voltage (Note 1) @ 3.0 A | 0.41 V | |
| I_R | Maximum DC Reverse Current @ $T_j = 25\text{ °C}$ at Rated DC Blocking Voltage @ $T_j = 100\text{ °C}$ (Note 3) | 0.2 mA | 0.5 mA |
| | | 50 mA | 100 mA |
| $R_{th(j-c)}$ $R_{th(j-a)}$ | Typical Thermal Resistance (Note 2) | 17 °C/W 55 °C/W | |

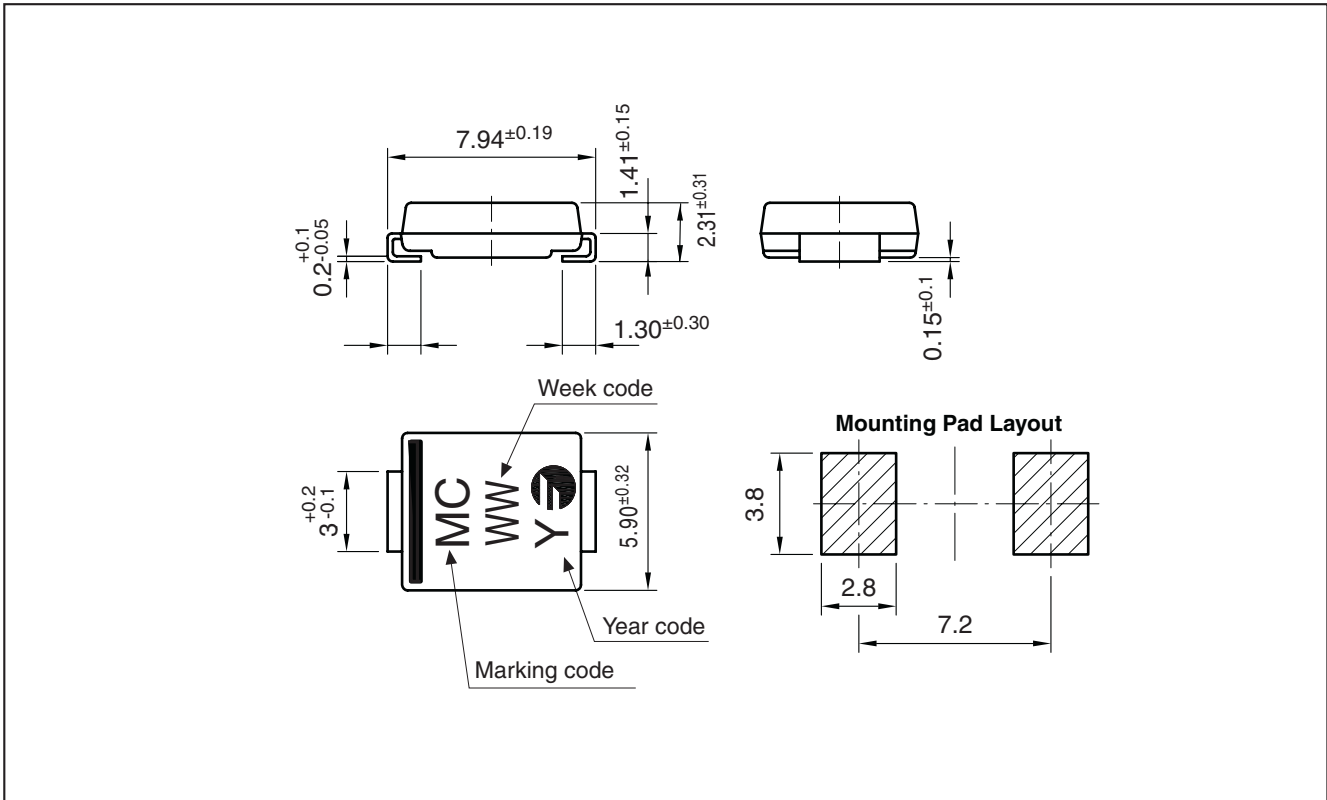
Notes: 1. Pulse Test: 300µ Pulse Width, 1% Duty Cycle
 2. Thermal Resistance from Junction to Case per diode
 3. Pulse test: Pulse width ≤ 40ms

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Ordering information

| PREFERRED P/N | PACKAGE CODE | DELIVERY MODE | BASE QUANTITY | UNIT WEIGHT (g) |
|---------------|--------------|----------------------------|---------------|-----------------|
| FSSL32 TRTB | TRTB | 13" diameter tape and reel | 3,000 | 0.201 |
| FSSL32 TRTS | TRTS | 7" diameter tape and reel | 850 | 0.201 |

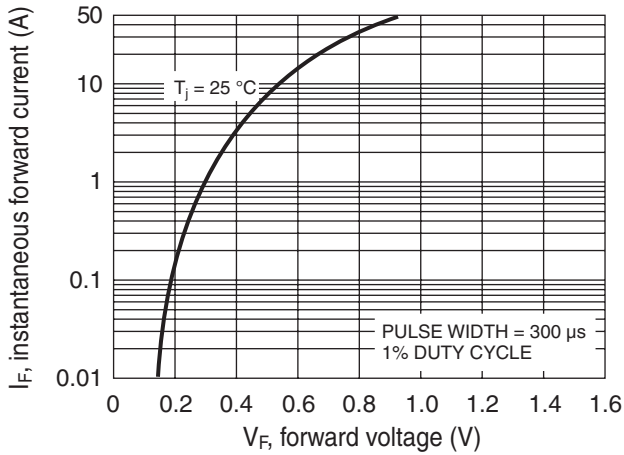
Package Outline Dimensions: (mm) DO-214AB / SMC



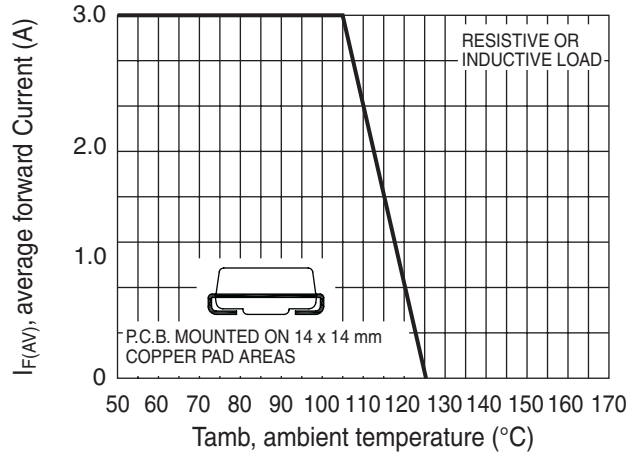
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Ratings and Characteristics (Ta 25 °C unless otherwise noted)

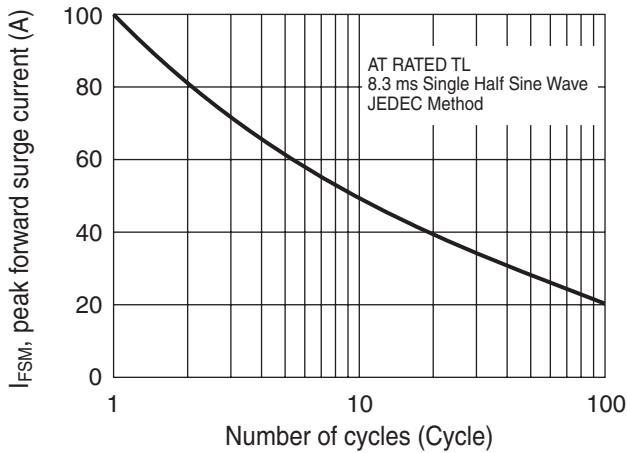
TYPICAL FORWARD CHARACTERISTIC



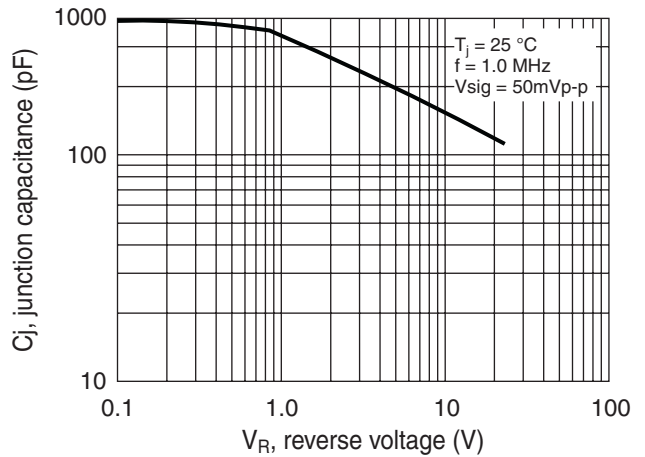
MAXIMUM FORWARD CURRENT DERATING CURVE



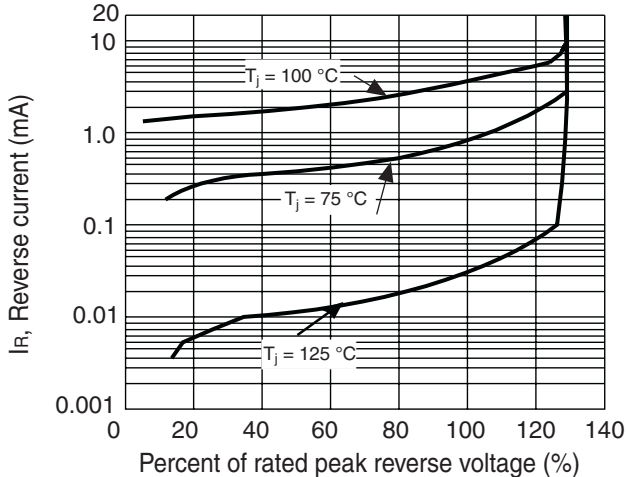
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE



TYPICAL REVERSE CHARACTERISTIC



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