

## Surface Mount Schottky Barrier Rectifier

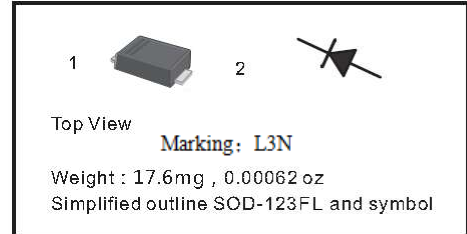
Reverse Voltage :30 V / Forward Current: 2.0A

### Features

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

### PINNING

| PIN | DESCRIPTION |
|-----|-------------|
| 1   | Cathode     |
| 2   | Anode       |



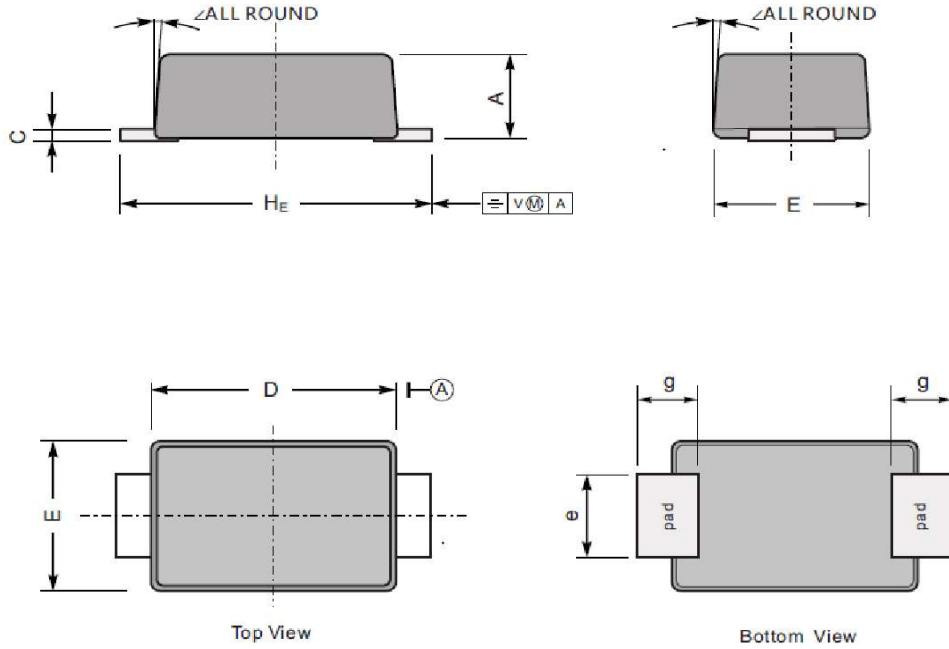
Absolute Maximum Ratings and Electrical characteristics Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

| Parameter                                                                                                    | Symbols     | MBR230LSF  | Units |
|--------------------------------------------------------------------------------------------------------------|-------------|------------|-------|
| Maximum Repetitive Peak Reverse Voltage                                                                      | $V_{RRM}$   | 30         | V     |
| Maximum RMS voltage                                                                                          | $V_{RMS}$   | 28         | V     |
| Maximum DC Blocking Voltage                                                                                  | $V_{DC}$    | 40         | V     |
| Maximum Average Forward Rectified Current                                                                    | $I_{F(AV)}$ | 2.0        | A     |
| Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)            | $I_{FSM}$   | 50         | A     |
| Max Instantaneous Forward Voltage at 2A                                                                      | $V_F$       | 0.55       | V     |
| Maximum DC Reverse Current $T_a = 25^\circ\text{C}$<br>at Rated DC Reverse Voltage $T_a = 100^\circ\text{C}$ | $I_R$       | 0.5<br>10  | mA    |
| Typical Junction Capacitance <sup>1)</sup>                                                                   | $C_j$       | 220        | pF    |
| Operating Junction Temperature Range                                                                         | $T_j$       | -55 ~ +125 | °C    |
| Storage Temperature Range                                                                                    | $T_{stg}$   | -55 ~ +150 | °C    |

1) Measured at 1MHz and applied reverse voltage of 4 V D.C

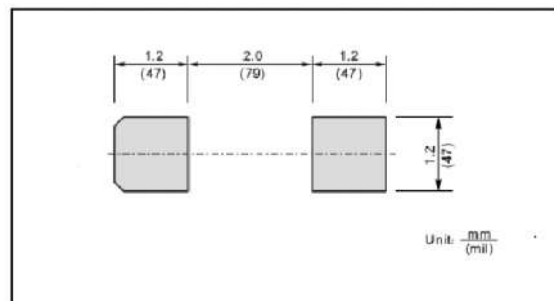
## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

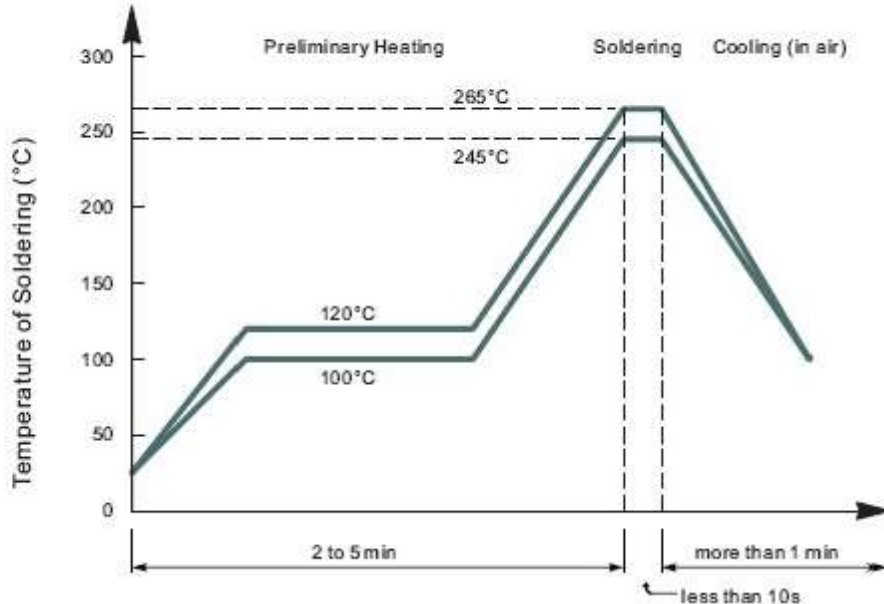


| UNIT |     | A   | C    | D   | E   | e   | g   | H <sub>E</sub> | ∠  |
|------|-----|-----|------|-----|-----|-----|-----|----------------|----|
| mm   | max | 1.1 | 0.20 | 2.9 | 1.9 | 1.1 | 0.9 | 3.8            | 7° |
|      | min | 0.9 | 0.12 | 2.6 | 1.7 | 0.8 | 0.7 | 3.5            |    |
| mil  | max | 43  | 7.9  | 114 | 75  | 43  | 35  | 150            |    |
|      | min | 35  | 4.7  | 102 | 67  | 31  | 28  | 138            |    |

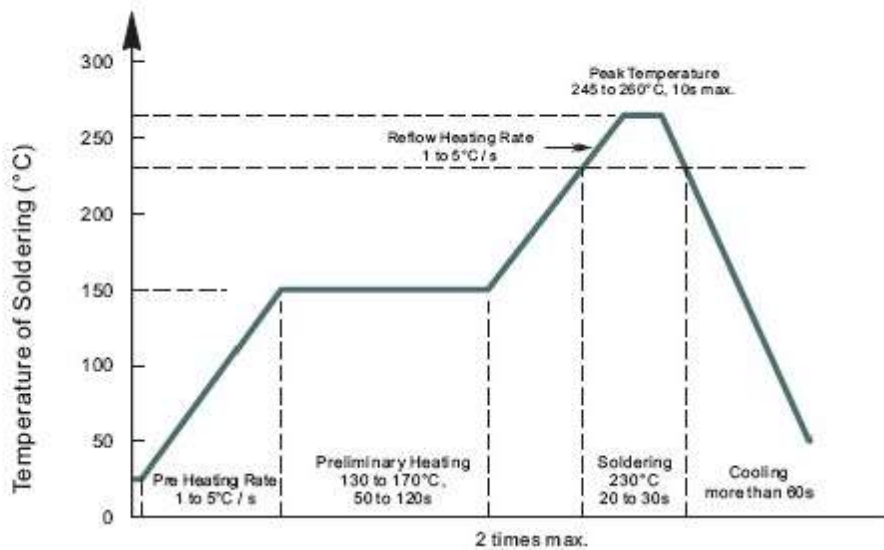
The recommended mounting pad size



• Recommended condition of flow soldering



• Recommended condition of reflow soldering



Recommended peak temperature is over 245°C, If peak temperature is below 245°C, you may adjust the following parameters; time length of peak temperature (longer), time length of soldering (longer), thickness of solder paste (thicker)

- Condition of hand soldering: Temperature: 350°C Time: 3s max. Times: one time
- Remark: Lead free solder paste (96.5Sn/3.0Ag/0.5Cu)

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