



# MSK340A

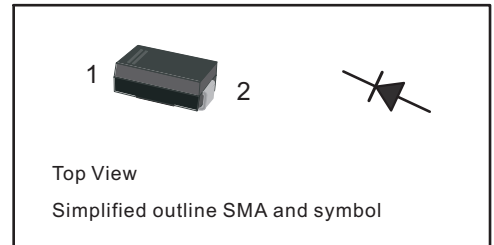
## Trench MOS Barrier Schottky

### Features

- Low power loss, high efficiency
- High current capability
- low forward voltage drop
- For use in low voltage

### PINNING

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



### Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

| Parameter                                                | Symbol      | Spec. Limit |                      |      | Unit    |
|----------------------------------------------------------|-------------|-------------|----------------------|------|---------|
|                                                          |             | Min.        | Typ.                 | Max. |         |
| Max. Repetitive Peak Reverse Voltage<br>@0.5mA           | $V_{RRM}$   | 45          | 50                   |      | V       |
| Max. Average Forward Rectified Current                   | $I_{F(AV)}$ |             |                      | 5    | A       |
| Forward Voltage Drop<br>$I_F=1A$<br>$I_F=3A$<br>$I_F=5A$ | $V_F$       |             | 0.30<br>0.35<br>0.42 | 0.46 | V       |
| Max. Reverse Current at $V_{RRM}$<br>@45V                | $I_R$       |             | 50                   | 100  | $\mu A$ |
| Operating Temperature Range                              | $T_J$       | -55         |                      | +125 | °C      |
| Storage Temperature Range                                | $T_{STG}$   | -55         |                      | +150 | °C      |

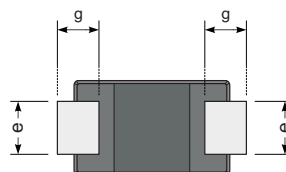
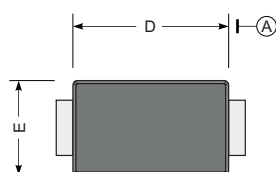
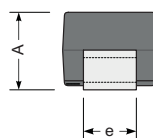
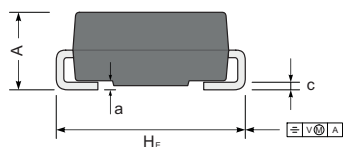


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## PACKAGE OUTLINE

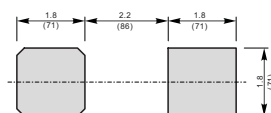
Plastic surface mounted package; 2 leads

SMA



| UNIT |     | A   | D   | E   | H <sub>E</sub> | c    | e   | g   | a   |
|------|-----|-----|-----|-----|----------------|------|-----|-----|-----|
| mm   | max | 2.2 | 4.5 | 2.7 | 5.2            | 0.31 | 1.6 | 1.5 | 0.3 |
|      | min | 1.9 | 4.0 | 2.3 | 4.7            | 0.15 | 1.3 | 0.9 |     |
| mil  | max | 87  | 181 | 106 | 205            | 12   | 63  | 59  | 12  |
|      | min | 75  | 157 | 91  | 185            | 6    | 51  | 35  |     |

The recommended mounting pad size



Unit :  $\frac{\text{mm}}{(\text{mil})}$