



# 200 V Trench MOS Barrier Schottky Rectifiers in eSMP<sup>®</sup> Packages

## FEATURES

Very low profile

Low power losses, high efficiency

Low forward voltage drop

Trench MOS Schottky technology



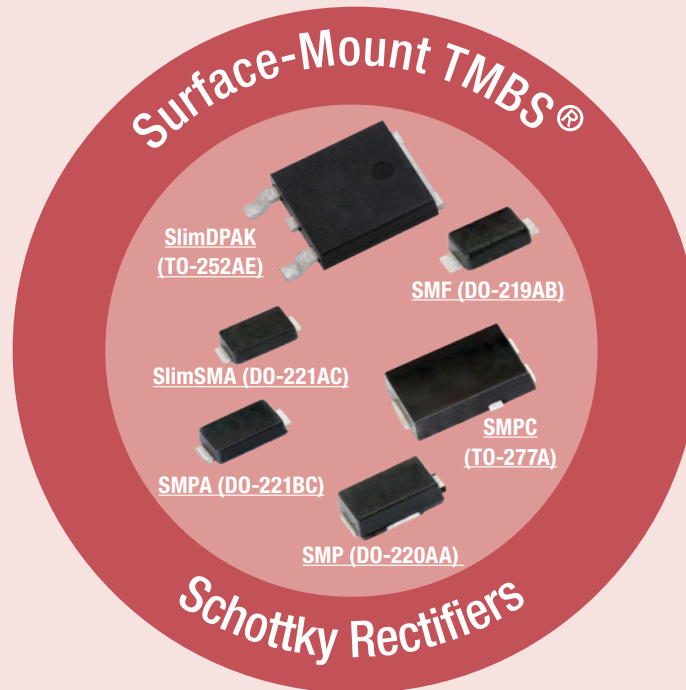
AEC-Q101 qualified available



Forward current: 1 A to 35 A



Operating junction temperature  
up to 175 °C



## APPLICATIONS

For use in high frequency inverters, freewheeling DC/DC converters, and polarity protection in commercial, industrial, and automotive applications



AUTOMOTIVE



INDUSTRIAL



DC/DC CONVERTERS  
FREEWHEELING

## PRODUCT PORTFOLIO

| Part Number              | Rev. Voltage (V) | I <sub>F(AV)</sub> (A) | V <sub>F</sub> at I <sub>F</sub> (V at A) | I <sub>FSM</sub> (A) | T <sub>J</sub> Max. (°C) | Package (JEDEC <sup>®</sup> ) Code | Circuit Configuration |
|--------------------------|------------------|------------------------|---|----------------------|--------------------------|------------------------------------|-----------------------|
| <a href="#">VSSAF522</a> | 200              | 5                      | 0.69                                      | 90                   | 175                      | SlimSMA (DO-221AC)                 | Single                |
| <a href="#">V5PA22</a>   |                  | 5                      | 0.69                                      | 90                   | 175                      | SMPA (DO-221BC)                    | Single                |
| <a href="#">V8PA22</a>   |                  | 8                      | 0.7                                       | 100                  | 175                      | SMPA (DO-221BC)                    | Single                |
| <a href="#">V2P22L</a>   |                  | 2                      | 0.68                                      | 50                   | 175                      | SMP (DO-220AA)                     | Single                |
| <a href="#">V3P22</a>    |                  | 3                      | 0.7                                       | 60                   | 175                      | SMP (DO-220AA)                     | Single                |
| <a href="#">V1F22</a>    |                  | 1                      | 0.64                                      | 30                   | 175                      | SMF (DO-219AB)                     | Single                |
| <a href="#">V2F22</a>    |                  | 2                      | 0.64                                      | 60                   | 175                      | SMF (DO-219AB)                     | Single                |
| <a href="#">V4P22C</a>   |                  | 2 x 2.0                | 0.65                                      | 60                   | 175                      | SMPC (TO-277A)                     | Common cathode        |
| <a href="#">V6P22C</a>   |                  | 2 x 3.0                | 0.68                                      | 70                   | 175                      | SMPC (TO-277A)                     | Common cathode        |
| <a href="#">V8P22C</a>   |                  | 2 x 4.0                | 0.69                                      | 80                   | 175                      | SMPC (TO-277A)                     | Common cathode        |

| Part Number              | Rev. Voltage (V) | I <sub>F(AV)</sub> (A) | V <sub>F</sub> at I <sub>F</sub> (V at A) | I <sub>FSM</sub> (A) | T <sub>J</sub> Max. (°C) | Package (JEDEC <sup>®</sup> ) Code | Circuit Configuration |
|--------------------------|------------------|------------------------|---|----------------------|--------------------------|------------------------------------|-----------------------|
| <a href="#">V10P22C</a>  | 200              | 2 x 5.0                | 0.69                                      | 90                   | 175                      | SMPC (TO-277A)                     | Common cathode        |
| <a href="#">V20PW22</a>  |                  | 20                     | 0.74                                      | 200                  | 175                      | SlimDPAK (TO-252AE)                | Single                |
| <a href="#">V35PW22</a>  |                  | 2 x 10                 | 0.7                                       | 150                  | 175                      | SlimDPAK (TO-252AE)                | Common cathode        |
| <a href="#">V20PW22C</a> |                  | 35                     | 0.77                                      | 260                  | 175                      | SlimDPAK (TO-252AE)                | Single                |
| <a href="#">V40PW22C</a> |                  | 2 x 20                 | 0.75                                      | 240                  | 175                      | SlimDPAK (TO-252AE)                | Common cathode        |
| <a href="#">V8P22</a>    |                  | 8                      | 0.68                                      | 140                  | 175                      | SMPC (TO-277A)                     | Single                |
| <a href="#">V10P22</a>   |                  | 10                     | 0.68                                      | 180                  | 175                      | SMPC (TO-277A)                     | Single                |
| <a href="#">V12P22</a>   |                  | 12                     | 0.68                                      | 200                  | 175                      | SMPC (TO-277A)                     | Single                |
| <a href="#">V15P22</a>   |                  | 15                     | 0.69                                      | 220                  | 175                      | SMPC (TO-277A)                     | Single                |

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