



The DNA of tech.™

# TMBS® Rectifiers in Low Profile DFN3820A Package 60 V, 100 V, and 150 V TMBS® Rectifiers Provide Improved Thermal Performance and Efficiency



## ADVANTAGE

Power DFN design offers high current density and high efficiency capability with small and extremely low profile solutions

## KEY PRODUCT FEATURES

- ✓ Industry-first Schottky rectifiers in extremely low profile (0.88 mm) Power DFN3820A with wettable flanks, offer best in class power density in a 3.8 mm x 2.0 mm footprint
- ✓ Wettable flanks allow for automatic optical inspection (AOI), eliminating the need for X-ray inspection
- ✓ A high current rating up to 7 A is double the power density of other solutions in the same size



## RESOURCES



## MARKETS AND APPLICATIONS



### MOBILITY

- Automotive
- Automotive electrification (e-powertrains) and intelligence (smart vehicles)
- Micro mobility, transportation, agricultural equipment



### CONNECTIVITY

- Telecom mobile infrastructure
- Telecom fixed infrastructure
- Telecom mobile devices



### CONSUMER

- Entertainment
- Appliances
- Health and care



### ENERGY SECTOR

- Generation and exploration
- Distribution and management
- Storage



### INDUSTRIAL

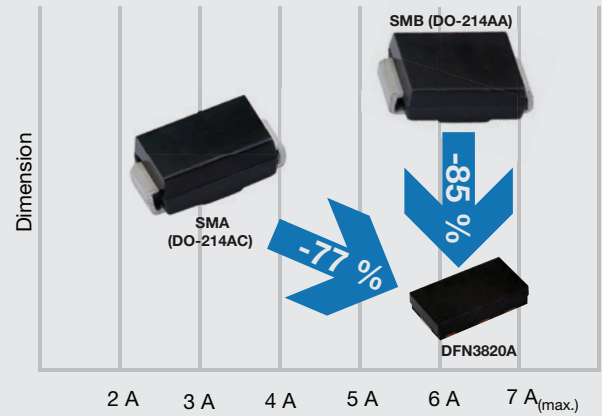
- Automation and infrastructure
- Drives and tools
- Home and building controls



## ADDITIONAL BENEFITS

- Current density is 50 % higher than conventional SMA (DO-214AC), and 12 % higher than SMF (DO-219AB)
- More efficient use of space on the PCB: an 85 % reduction compared to the conventional SMB (DO-214AA) and a 42 % reduction compared to the eSMP<sup>®</sup> Series - SlimSMAW (DO-221AD), and a higher current rating (double), compared to the SMP (DO-220AA)
- Optimized inner structure design offers superior thermal performance, enabling much higher operating current compared to the SMP (DO-220AA) package in the same footprint, and outperforms conventional Schottky rectifiers in the SMA (DO-214AC) and SMB (DO-214AA) packages

## INDUSTRY-FIRST POWER DFN - DFN3820A PACKAGE



## The Key Specifications

Part Number	I <sub>FAV</sub> (A)	I <sub>FSM</sub> (A)	Rev. Voltage (V)	V <sub>F</sub> at I <sub>F</sub> (V)	T <sub>J</sub> Max. (°C)
<a href="#">V2NM153</a>	2	50	150	0.56	175
<a href="#">V2NL63</a>	2	50	60	0.36	150
<a href="#">V2NM63</a>	2	50	60	0.42	175
<a href="#">V2N103</a>	2	50	100	0.45	150
<a href="#">V2NM103</a>	2	50	100	0.48	175
<a href="#">V3NM153</a>	3	80	150	0.55	175
<a href="#">V3NL63</a>	3	80	60	0.35	150
<a href="#">V3NM63</a>	3	80	60	0.42	175
<a href="#">V3N103</a>	3	80	100	0.43	150
<a href="#">V3NM103</a>	3	80	100	0.46	175
<a href="#">V5NM153</a>	5	100	150	0.56	175
<a href="#">V5NL63</a>	5	100	60	0.35	150
<a href="#">V5NM63</a>	5	100	60	0.43	175
<a href="#">V5N103</a>	5	100	100	0.46	150
<a href="#">V5NM103</a>	5	100	100	0.49	175
<a href="#">V7NM153</a>	7	120	150	0.56	175
<a href="#">V7NL63</a>	7	120	60	0.37	150
<a href="#">V7NM63</a>	7	120	60	0.43	175
<a href="#">V7N103</a>	7	120	100	0.45	150
<a href="#">V7NM103</a>	7	120	100	0.49	175