



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



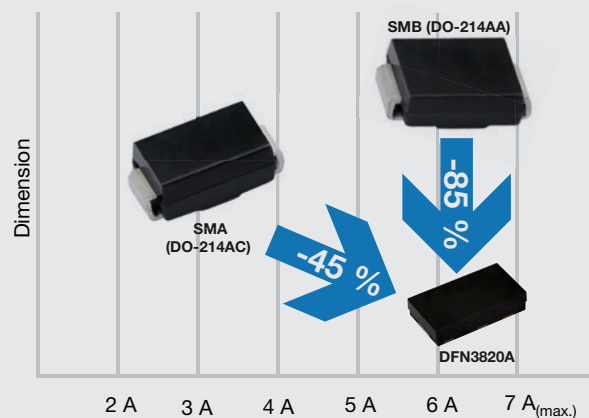
INDUSTRIAL

- 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® 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_{FAV} (A)	I_{FSM} (A)	Rev. Voltage (V)	V_F at I_F (V)	T_J Max. (°C)
V2NM153	2	50	150	0.56	175
V2NL63	2	50	60	0.36	150
V2NM63	2	50	60	0.42	175
V2N103	2	50	100	0.45	150
V2NM103	2	50	100	0.48	175
V3NM153	3	80	150	0.55	175
V3NL63	3	80	60	0.35	150
V3NM63	3	80	60	0.42	175
V3N103	3	80	100	0.43	150
V3NM103	3	80	100	0.46	175
V5NM153	5	100	150	0.56	175
V5NL63	5	100	60	0.35	150
V5NM63	5	100	60	0.43	175
V5N103	5	100	100	0.46	150
V5NM103	5	100	100	0.49	175
V7NM153	7	120	150	0.56	175
V7NL63	7	120	60	0.37	150
V7NM63	7	120	60	0.43	175
V7N103	7	120	100	0.45	150
V7NM103	7	120	100	0.49	175