



AEC-Q101 Qualified High Voltage Diodes

Standard Recovery

Supply a full range of charging power from 3 kW to over 30 kW

Very low forward voltage drop

Glass passivated pellet chip junction

Flexible solution for reliable AC power rectification

High surge, low V_F rugged blocking diode for DC charging stations



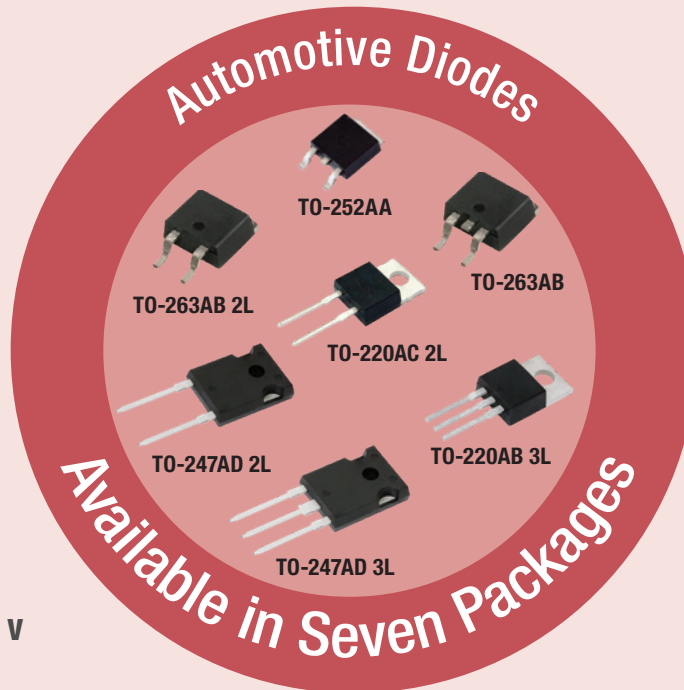
AEC-Q101 qualified



Forward current from 8 A to 65 A



Repetitive voltages from 1200 V to 1600 V



APPLICATIONS

50 Hz / 60 Hz AC line rectification stage for onboard battery chargers in electric vehicles (EV) and hybrid electric vehicles (HEV)



EV / HEV BATTERY CHARGING



AUTOMOTIVE

Part Number	Rev. Voltage (V)	$I_{F(AV)}$ (A)	V_F at I_F (V at A)	I_{FSM} (A)	T_J Max. (°C)	Package (JEDEC®) Code	Circuit Configuration
VS-8EWS12SLHM3	1200	8	1.1	150	150	DPAK (TO-252AA)	Single
VS-10ETS12SLHM3	1200	10	1.1	160	150	D ² PAK (TO-263AB)	Single
VS-10ETS12THM3	1200	10	1.1	160	150	TO-220AC 2L	Single
VS-20ATS12HLM3	1200	20	1.1	300	150	TO-220AB 3L	Single
VS-20ETS12THM3	1200	20	1.1	300	150	TO-220AC 2L	Single
VS-25ETS12SLHM3	1200	25	1.14	300	150	D ² PAK (TO-263AB)	Single
VS-25ETS12S2LHM3	1200	25	1.14	300	150	D ² PAK 2L (TO-263AB 2L)	Single
VS-45EPS12LHM3	1200	45	1.14	500	150	TO-247AD 2L	Single
VS-45APS12LHM3	1200	45	1.14	500	150	TO-247AD 3L	Single
VS-65EPS12LHM3	1200	65	1.12	1000	150	TO-247AD 2L	Single
VS-65APS12LHM3	1200	65	1.12	1000	150	TO-247AD 3L	Single
VS-8EWS16SLHM3	1600	8	1.1	150	150	DPAK (TO-252AA)	Single
VS-20ETS16THM3	1600	20	1.1	300	150	TO-220AC 2L	Single
VS-45EPS16LHM3	1600	45	1.16	500	150	TO-247AD 2L	Single
VS-45APS16LHM3	1600	45	1.16	500	150	TO-247AD 3L	Single
VS-65EPS16LHM3	1600	65	1.17	950	150	TO-247AD 2L	Single
VS-65APS16LHM3	1600	65	1.17	950	150	TO-247AD 3L	Single

For technical questions: DiodesAmericas@vishay.com, DiodesEurope@vishay.com, or DiodesAsia@vishay.com