



AEC-Q101 Qualified High Voltage Diodes

Fast 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



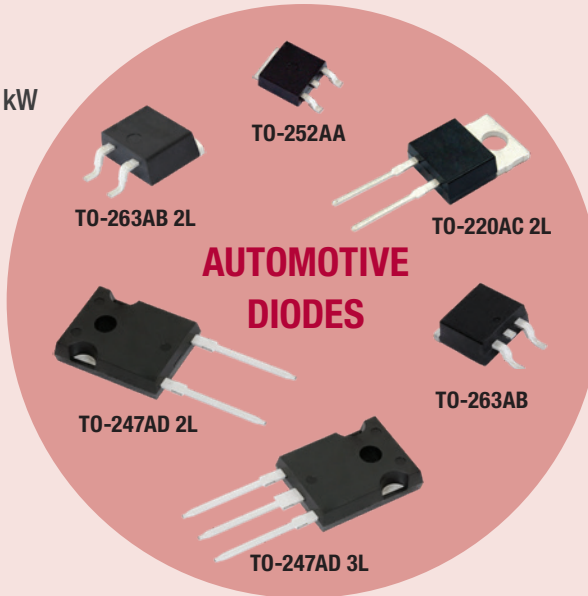
AEC-Q101 qualified



Forward current from 8 A to 65 A



Repetitive voltages from 600 V to 1200 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_{tr} (ns)	T_J Max. (°C)	Package (JEDEC®) Code	Circuit Configuration	Snap Factor
VS-8EWF06SLHM3	600	8	1.2	150	55	150	DPAK (TO-252AA)	Single	0.5
VS-10ETF06SLHM3	600	10	1.2	140	50	150	D ² PAK (TO-263AB)	Single	0.6
VS-10ETF06THM3	600	10	1.2	130	50	150	TO-220AC 2L	Single	0.6
VS-20ETF06SLHM3	600	20	1.3	300	60	150	D ² PAK (TO-263AB)	Single	0.6
VS-20ETF06THM3	600	20	1.3	300	60	150	TO-220AC 2L	Single	0.6
VS-35EPF06LHM3	600	35	1.27	320	60	150	TO-247AD 2L	Single	0.6
VS-35APF06LHM3	600	35	1.27	320	60	150	TO-247AD 3L	Single	0.6
VS-45EPF06LHM3	600	45	1.31	550	60	150	TO-247AD 2L	Single	0.5
VS-45APF06LHM3	600	45	1.31	550	60	150	TO-247AD 3L	Single	0.5
VS-65EPF06LHM3	600	65	1.32	830	70	150	TO-247AD 2L	Single	0.5
VS-65APF06LHM3	600	65	1.32	830	70	150	TO-247AD 3L	Single	0.5
VS-8EWF12SLHM3	1200	8	1.3	150	80	150	DPAK (TO-252AA)	Single	0.6
VS-10ETF12SLHM3	1200	10	1.33	155	80	150	D ² PAK (TO-263AB)	Single	0.6
VS-10ETF12THM3	1200	10	1.33	140	80	150	TO-220AC 2L	Single	0.6
VS-20ETF12SLHM3	1200	20	1.31	355	95	150	D ² PAK (TO-263AB)	Single	0.6
VS-20ETF12THM3	1200	20	1.31	320	95	150	TO-220AC 2L	Single	0.6
VS-35EPF12LHM3	1200	35	1.27	350	95	150	TO-247AD 2L	Single	0.6
VS-35APF12LHM3	1200	35	1.27	350	95	150	TO-247AD 3L	Single	0.6
VS-45EPF12LHM3	1200	45	1.44	550	95	150	TO-247AD 2L	Single	0.5
VS-45APF12LHM3	1200	45	1.44	550	95	150	TO-247AD 3L	Single	0.5
VS-65EPF12LHM3	1200	65	1.42	830	95	150	TO-247AD 2L	Single	0.6
VS-65APF12LHM3	1200	65	1.42	830	95	150	TO-247AD 3L	Single	0.6

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