



# 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



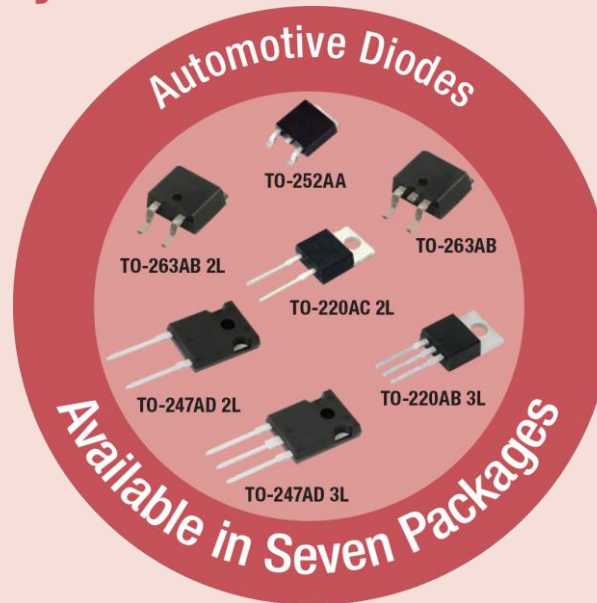
AEC-Q101 qualified



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
<a href="#">VS-8EWS12SLHM3</a>	1200	8	1.1	150	150	DPAK (TO-252AA)	Single
<a href="#">VS-10ETS12SLHM3</a>	1200	10	1.1	160	150	D <sup>2</sup> PAK (TO-263AB)	Single
<a href="#">VS-10ETS12THM3</a>	1200	10	1.1	160	150	TO-220AC 2L	Single
<a href="#">VS-20ATS12HM3</a>	1200	20	1.1	300	150	TO-220AB 3L	Single
<a href="#">VS-20ETS12THM3</a>	1200	20	1.1	300	150	TO-220AC 2L	Single
<a href="#">VS-25ETS12SLHM3</a>	1200	25	1.14	300	150	D <sup>2</sup> PAK (TO-263AB)	Single
<a href="#">VS-25ETS12SLHM3</a>	1200	25	1.14	300	150	D <sup>2</sup> PAK 2L (TO-263AB 2L)	Single
<a href="#">VS-45EPS12LHM3</a>	1200	45	1.14	500	150	TO-247AD 2L	Single
<a href="#">VS-45APS12LHM3</a>	1200	45	1.14	500	150	TO-247AD 3L	Single
<a href="#">VS-65EPS12LHM3</a>	1200	65	1.12	1000	150	TO-247AD 2L	Single
<a href="#">VS-65APS12LHM3</a>	1200	65	1.12	1000	150	TO-247AD 3L	Single
<a href="#">VS-8EWS16SLHM3</a>	1600	8	1.1	150	150	DPAK (TO-252AA)	Single
<a href="#">VS-20ETS16THM3</a>	1600	20	1.1	300	150	TO-220AC 2L	Single
<a href="#">VS-45EPS16LHM3</a>	1600	45	1.16	500	150	TO-247AD 2L	Single
<a href="#">VS-45APS16LHM3</a>	1600	45	1.16	500	150	TO-247AD 3L	Single
<a href="#">VS-65EPS16LHM3</a>	1600	65	1.17	950	150	TO-247AD 2L	Single
<a href="#">VS-65APS16LHM3</a>	1600	65	1.17	950	150	TO-247AD 3L	Single

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