



Through-Hole Phase Control Thyristors

AEC-Q101 Qualified

Flexible solution for reliable AC power rectification

High voltage

Easily control peak current at charger power up to reduce passive / electromechanical components

AEC-Q101 qualified, meets JESD 201 class 1A whisker test

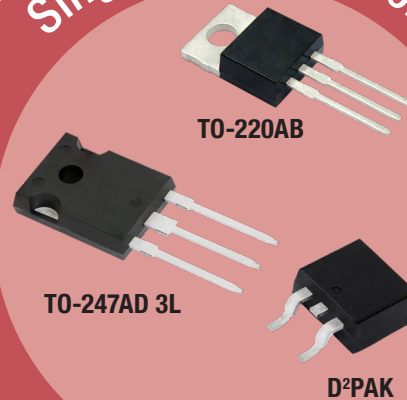


AEC-Q101 qualified



Peak repetitive reverse voltage up to 1600 V

Single SCR Thyristors



APPLICATIONS

- On-board and off-board EV / HEV battery chargers
- Motor control
- Renewable energy inverters
- Battery chargers



EV / HEV BATTERY CHARGING STATIONS



AUTOMOTIVE



SOLAR INVERTERS

Automotive Portfolio

Part Number	$I_{T(AV)}$ (A)	$I_{T(RMS)}$ (A)	V_{DRM}/V_{RRM} (V)	I_{TSM} at 50 Hz (A)	V_{TM} at I_{TM} (V at A)	T_J (°C)	dV/dt (V/μs)	Package	Circuit Configuration
VS-12TTS08HM3	8	12.5	800	110	1.2 at 8	-40 to +125	150	TO-220AB	Single SCR
VS-12TTS08SLHM3	8	12.5	800	110	1.2 at 8	-40 to +125	150	D²PAK (TO-263AB)	Single SCR
VS-25TTS12HM3	16	25	1200	320	1.25 at 16	-40 to +125	500	TO-220AB	Single SCR
VS-25TTS12SLHM3	16	25	1200	350	1.25 at 16	-40 to +125	500	D²PAK (TO-263AB)	Single SCR
VS-25TTS12S2LHM3	16	25	1200	350	1.25 at 16	-40 to +125	500	D²PAK 2L (TO-263AB 2L)	Single SCR
VS-25TTS16S2LHM3	16	25	1600	350	1.25 at 16	-40 to +125	500	D²PAK 2L (TO-263AB 2L)	Single SCR
VS-30TPS12LHM3	20	30	1200	300	1.3 at 20	-40 to +125	500	TO-247AD 3L	Single SCR
VS-40TTS12HM3	25	40	1200	350	1.6 at 80	-40 to +140	500	TO-220AB	Single SCR
VS-40TPS12ALHM3	35	55	1200	600	1.85 at 110	-40 to +125	500	TO-247AD 3L	Single SCR
VS-40TPS12LHM3	35	55	1200	600	1.85 at 110	-40 to +150	1000	TO-247AD 3L	Single SCR
VS-50TPS12LHM3	50	79	1200	630	1.2 at 50	-40 to +150	1000	TO-247AD 3L	Single SCR
VS-25TTS16SLHM3	16	25	1600	350	1.25 at 16	-40 to +125	500	D²PAK (TO-263AB)	Single SCR
VS-30TPS16LHM3	20	30	1600	300	1.3 at 20	-40 to +125	500	TO-247AD 3L	Single SCR
VS-40TPS16LHM3	35	55	1600	500	1.92 at 110	-40 to +125	1000	TO-247AD 3L	Single SCR
VS-80TPS12LHM3	80	126	1200	760	1.18 at 80	-40 to +150	1000	TO-247AD 3L	Single SCR
VS-100TPS12LHM3	100	157	1200	935	1.17 at 100	-40 to +150	1000	TO-247AD 3L	Single SCR

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