



# 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

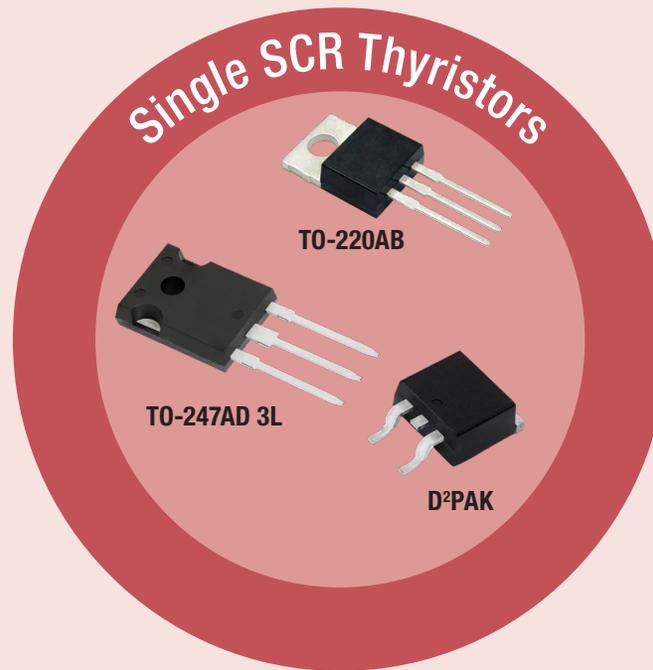
AEC-Q101 qualified, meets JESD 201 class 1A whisker test



**AEC-Q101 qualified**



**Peak repetitive reverse voltage up to 1600 V**



### APPLICATIONS

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



**AUTOMOTIVE**



**EV / HEV BATTERY CHARGING STATIONS**



**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
<a href="#">VS-12TTS08HM3</a>	8	12.5	800	110	1.2 at 8	-40 to +125	150	TO-220AB	Single SCR
<a href="#">VS-12TTS08SLHM3</a>	8	12.5	800	110	1.2 at 8	-40 to +125	150	D²PAK (TO-263AB)	Single SCR
<a href="#">VS-25TTS12HM3</a>	16	25	1200	320	1.25 at 16	-40 to +125	500	TO-220AB	Single SCR
<a href="#">VS-25TTS12SLHM3</a>	16	25	1200	350	1.25 at 16	-40 to +125	500	D²PAK (TO-263AB)	Single SCR
<a href="#">VS-25TTS12S2LHM3</a>	16	25	1200	350	1.25 at 16	-40 to +125	500	D²PAK 2L (TO-263AB 2L)	Single SCR
<a href="#">VS-25TTS16S2LHM3</a>	16	25	1600	350	1.25 at 16	-40 to +125	500	D²PAK 2L (TO-263AB 2L)	Single SCR
<a href="#">VS-30TPS12LHM3</a>	20	30	1200	300	1.3 at 20	-40 to +125	500	TO-247AD 3L	Single SCR
<a href="#">VS-40TTS12HM3</a>	25	40	1200	350	1.6 at 80	-40 to +140	500	TO-220AB	Single SCR
<a href="#">VS-40TPS12ALHM3</a>	35	55	1200	600	1.85 at 110	-40 to +125	500	TO-247AD 3L	Single SCR
<a href="#">VS-40TPS12LHM3</a>	35	55	1200	600	1.85 at 110	-40 to +150	1000	TO-247AD 3L	Single SCR
<a href="#">VS-50TPS12LHM3</a>	50	79	1200	630	1.2 at 50	-40 to +150	1000	TO-247AD 3L	Single SCR
<a href="#">VS-25TTS16SLHM3</a>	16	25	1600	350	1.25 at 16	-40 to +125	500	D²PAK (TO-263AB)	Single SCR
<a href="#">VS-30TPS16LHM3</a>	20	30	1600	300	1.3 at 20	-40 to +125	500	TO-247AD 3L	Single SCR
<a href="#">VS-40TPS16LHM3</a>	35	55	1600	500	1.92 at 110	-40 to +125	1000	TO-247AD 3L	Single SCR
<a href="#">VS-80TPS12LHM3</a>	80	126	1200	760		-40 to +150	1000	TO-247AD 3L	Single SCR
<a href="#">VS-100TPS12LHM3</a>	100	157	1200	936		-40 to +150	1000	TO-247AD 3L	Single SCR

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