

MCC's Auto-Grade TVS Series



Features

- Peak pulse power (Ipp) options from 400W to 3000W
- AEC-Q101 qualified
- 175°C maximum operating junction temperature
- Versatile solutions with reverse standoff voltage of 5V to 190V
- Excellent clamping capability
- ESD IEC 61000-4-2 compliance ensures ±30kV (air) ±30kV (contact) protection



Benefits

This TVS series offers enhanced protection with AEC-Q101 qualification, PPAP capability, and excellent clamping capability to safeguard sensitive electronics from spikes.

This TVS series ensures reliable performance in harsh Automotive conditions with a maximum junction temperature of 175°C.

Applications



Electric Vehicle
Charging
Systems



ESD
Protection



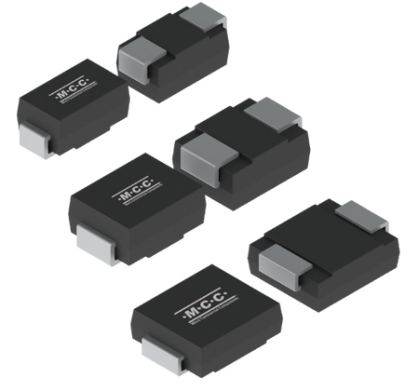
Lighting
Systems

Made for Harsh Environments: MCC's Auto-Grade TVS Series



AEC-Q101 QUALIFIED AND PPAP CAPABLE WITH 400W TO 3000W PEAK PULSE POWER

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Parametrics & Datasheets:

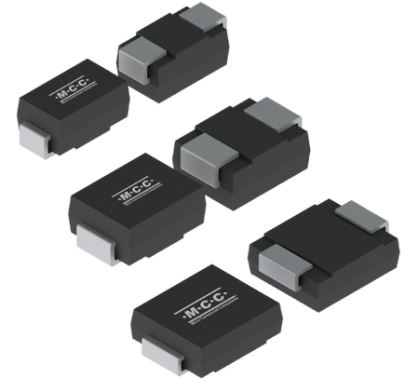
Product	TYPE	Package	Number of Functions	Peak Pulse Power Dissipation (PPPM)	Working Peak Reverse Voltage (VRWM)	Data Sheet
SMA6J12CAQ-TP	TVS	SMA	Bidirectional	600W	12V	Info
SMA6J15CAQ-TP	TVS	SMA	Bidirectional	600W	15V	Info
SMA6J18AQ-TP	TVS	SMA	Unidirectional	600W	18V	Info
SMA6J24AQ-TP	TVS	SMA	Unidirectional	600W	24V	Info
SMAJ18AQ-TP	TVS	SMA	Unidirectional	400W	18V	Info
SMAJ18CAQ-TP	TVS	SMA	Bidirectional	400W	18V	Info
SMAJ24AQ-TP	TVS	SMA	Unidirectional	400W	24V	Info
SMAJ24CAQ-TP	TVS	SMA	Bidirectional	400W	24V	Info
SMAJP4KE15CAQ-TP	TVS	SMA	Bidirectional	400W	12.8V	Info
SMAJP4KE24AQ-TP	TVS	SMA	Unidirectional	400W	20.5V	Info
SMBJ18AQ-TP	TVS	SMB	Unidirectional	600W	18V	Info
SMBJ18CAQ-TP	TVS	SMB	Bidirectional	600W	18V	Info

CONTACT MCC TO REQUEST A SAMPLE

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Parametrics & Datasheets:

Product	TYPE	Package	Number of Functions	Peak Pulse Power Dissipation (PPPM)	Working Peak Reverse Voltage (VRWM)	Data Sheet
SMBJ20AQ-TP	TVS	SMB	Unidirectional	600W	20V	Info
SMBJ20CAQ-TP	TVS	SMB	Bidirectional	600W	20V	Info
SMBJP6KE18AQ-TP	TVS	SMB	Unidirectional	600W	15.3V	Info
SMBJP6KE18CAQ-TP	TVS	SMB	Bidirectional	600W	15.3V	Info
SMBJP6KE20AQ-TP	TVS	SMB	Unidirectional	600W	17.1V	Info
SMBJP6KE20CAQ-TP	TVS	SMB	Bidirectional	600W	17.1V	Info
SMCJ1.5KE18AQ-TP	TVS	SMC	Unidirectional	1500W	15.3V	Info
SMCJ1.5KE20AQ-TP	TVS	SMC	Unidirectional	1500W	17.1V	Info
SMCJ1.5KE62AQ-TP	TVS	SMC	Unidirectional	1500W	53V	Info
SMCJ1.5KE68AQ-TP	TVS	SMC	Unidirectional	1500W	58.1V	Info
SMCJ18AQ-TP	TVS	SMC	Unidirectional	1500W	18V	Info
SMCJ20AQ-TP	TVS	SMC	Unidirectional	1500W	20V	Info

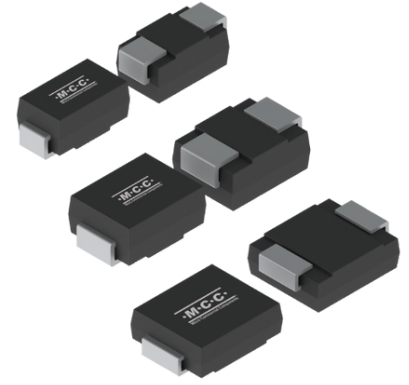
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Made for Harsh Environments: MCC's Auto-Grade TVS Series

Demanding Automotive environments have met their match in MCC's extensive lineup of AEC-Q101 qualified TVS products. From power rails to tire pressure monitoring, these components offer the quality performance you can always count on in a range of applications.



Applications:



Power & Control Systems



Noise & ESD Protection



Electronics & Connectivity

- Automotive power rail protection
- Battery management systems (BMS)
- Engine control units
- Electric vehicle charging systems
- Electric power steering (EPS) systems
- Vehicle communication networks

- Noise suppression
- ESD protection

- Automotive I/O interface protection
- Infotainment systems
- Lighting systems
- Sensors and actuators
- On-board diagnostics (OBD)
- Advanced driver assistance systems (ADAS)
- Anti-lock braking systems (ABS)
- Airbag control units
- Tire pressure monitoring systems (TPMS)

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