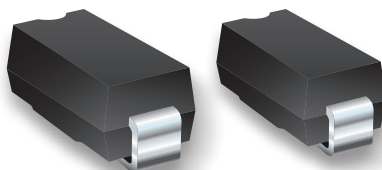




PRODUCT EXTENSION RELEASE

DIODES



Bourns Announces the Expansion of the Model SMA6J, SMA6J-Q, SMBJ-Q, and P6SMB-Q Series TVS Diodes

Riverside, California – October 30, 2020 – Bourns is pleased to announce the voltage expansion of its 600 watt TVS diodes in both commercial grade and AEC-Q101 compliant, automotive grade. Manufacturers of power supply equipment, communications, data center and automotive components continue to challenge the semiconductor industry to provide broader voltages as well as superior quality components.

The Model SMA6J and SMA6J-Q TVS diode series are housed in an SMA package. The Model SMBJ-Q and P6SMB-Q TVS diode series are housed in an SMB package. All four models are well suited for DC power port protection due to their surge withstanding capability.

Series	Expanded Standoff Voltage	Complete Standoff Voltage Range	Uni / Bidirectional	Power Wattage
SMA6J	45 ~ 130 V 45 ~ 90 V	5 ~ 130 V 5 ~ 90 V	Yes	600 W
SMA6J-Q	45 ~ 130 V 45 ~ 90 V	5 ~ 130 V 5 ~ 90 V	Yes	600 W
SMBJ-Q	5 ~ 11 V 60 ~ 220 V	5 ~ 220 V	Yes	600 W
P6SMB-Q	5.8 ~ 11.1 V 64.1 ~ 214 V	5.8 ~ 214 V	Yes	600 W

Product data sheets with detailed specifications can be viewed on the Bourns website at www.bourns.com. Please visit www.bourns.com/products/diodes/diodes-aec-q101-compliant for more information on AEC-Q101 compliant TVS diodes.

If you have any questions or need additional information, please feel free to contact [Customer Service/Inside Sales](#).

ESD2029

Features

- Surface Mount SMA package (SMA6J, SMA6J-Q)
- Surface Mount SMB package (SMBJ-Q, P6SMB-Q)
- Power Dissipation: 600 watts
- RoHS compliant*
- AEC-Q101 compliant** (SMA6J-Q, SMBJ-Q, P6SMB-Q)

Applications

- Protection of power buses
- Protection of I/O interfaces
- Overvoltage transient protection
- Telecom, computer, industrial and consumer electronics applications

* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

** "Q" part number suffix indicates AEC-Q101 compliancy.

Available Part Numbers	Available Part Numbers
SMBJ5.0A-Q	P6SMB6.8A-Q
SMBJ6.0A-Q	P6SMB7.5A-Q
SMBJ6.5A-Q	P6SMB8.2A-Q
SMBJ7.0A-Q	P6SMB9.1A-Q
SMBJ7.5A-Q	P6SMB10A-Q
SMBJ8.0A-Q	P6SMB11A-Q
SMBJ8.5A-Q	P6SMB12A-Q
SMBJ9.0A-Q	P6SMB13A-Q
SMBJ10A-Q	P6SMB75A-Q
SMBJ11A-Q	P6SMB82A-Q
SMBJ60A-Q	P6SMB91A-Q
SMBJ64A-Q	P6SMB100A-Q
SMBJ70A-Q	P6SMB110A-Q
SMBJ75A-Q	P6SMB120A-Q
SMBJ78A-Q	P6SMB130A-Q
SMBJ85A-Q	P6SMB150A-Q
SMBJ90A-Q	P6SMB160A-Q
SMBJ100A-Q	P6SMB170A-Q
SMBJ110A-Q	P6SMB180A-Q
SMBJ120A-Q	P6SMB200A-Q
SMBJ130A-Q	P6SMB220A-Q
SMBJ150A-Q	P6SMB250A-Q
SMBJ160A-Q	P6SMB6.8CA-Q
SMBJ170A-Q	P6SMB7.5CA-Q
SMBJ180A-Q	P6SMB8.2CA-Q
SMBJ200A-Q	P6SMB9.1CA-Q
SMBJ220A-Q	P6SMB10CA-Q
SMBJ5.0CA-Q	P6SMB11CA-Q
SMBJ6.0CA-Q	P6SMB12CA-Q
SMBJ6.5CA-Q	P6SMB13CA-Q
SMBJ7.0CA-Q	P6SMB75CA-Q
SMBJ7.5CA-Q	P6SMB82CA-Q
SMBJ8.0CA-Q	P6SMB91CA-Q
SMBJ8.5CA-Q	P6SMB100CA-Q
SMBJ9.0CA-Q	P6SMB110CA-Q
SMBJ10CA-Q	P6SMB120CA-Q
SMBJ11CA-Q	P6SMB130CA-Q
SMBJ60CA-Q	P6SMB150CA-Q
SMBJ64CA-Q	P6SMB160CA-Q
SMBJ70CA-Q	P6SMB170CA-Q
SMBJ75CA-Q	P6SMB180CA-Q
SMBJ78CA-Q	P6SMB200CA-Q
SMBJ85CA-Q	P6SMB220CA-Q
SMBJ90CA-Q	P6SMB250CA-Q
SMBJ100CA-Q	
SMBJ110CA-Q	

SMBJ120CA-Q	
SMBJ130CA-Q	
SMBJ150CA-Q	
SMBJ160CA-Q	
SMBJ170CA-Q	
SMBJ180CA-Q	
SMBJ200CA-Q	
SMBJ220CA-Q	
SMBJ5.0A-QH	
SMBJ6.0A-QH	
SMBJ6.5A-QH	
SMBJ7.0A-QH	
SMBJ7.5A-QH	
SMBJ8.0A-QH	
SMBJ8.5A-QH	
SMBJ9.0A-QH	
SMBJ10A-QH	
SMBJ11A-QH	
SMBJ60A-QH	
SMBJ64A-QH	
SMBJ70A-QH	
SMBJ75A-QH	
SMBJ78A-QH	
SMBJ85A-QH	
SMBJ90A-QH	
SMBJ100A-QH	
SMBJ110A-QH	
SMBJ120A-QH	
SMBJ130A-QH	
SMBJ150A-QH	
SMBJ160A-QH	
SMBJ170A-QH	
SMBJ180A-QH	
SMBJ200A-QH	
SMBJ220A-QH	
SMBJ5.0CA-QH	
SMBJ6.0CA-QH	
SMBJ6.5CA-QH	
SMBJ7.0CA-QH	
SMBJ7.5CA-QH	
SMBJ8.0CA-QH	
SMBJ8.5CA-QH	
SMBJ9.0CA-QH	
SMBJ10CA-QH	
SMBJ11CA-QH	
SMBJ60CA-QH	
SMBJ64CA-QH	

SMBJ70CA-QH	
SMBJ75CA-QH	
SMBJ78CA-QH	
SMBJ85CA-QH	
SMBJ90CA-QH	
SMBJ100CA-QH	
SMBJ110CA-QH	
SMBJ120CA-QH	
SMBJ130CA-QH	
SMBJ150CA-QH	
SMBJ160CA-QH	
SMBJ170CA-QH	
SMBJ180CA-QH	
SMBJ200CA-QH	
SMBJ220CA-QH	

Available Part Numbers	Available Part Numbers
SMA6J45A	SMA6J45A-Q
SMA6J48A	SMA6J48A-Q
SMA6J51A	SMA6J51A-Q
SMA6J54A	SMA6J54A-Q
SMA6J58A	SMA6J58A-Q
SMA6J60A	SMA6J60A-Q
SMA6J64A	SMA6J64A-Q
SMA6J70A	SMA6J70A-Q
SMA6J75A	SMA6J75A-Q
SMA6J78A	SMA6J78A-Q
SMA6J85A	SMA6J85A-Q
SMA6J90A	SMA6J90A-Q
SMA6J100A	SMA6J100A-Q
SMA6J110A	SMA6J110A-Q
SMA6J120A	SMA6J120A-Q
SMA6J130A	SMA6J130A-Q
SMA6J45CA	SMA6J45CA-Q
SMA6J48CA	SMA6J48CA-Q
SMA6J51CA	SMA6J51CA-Q
SMA6J54CA	SMA6J54CA-Q
SMA6J58CA	SMA6J58CA-Q
SMA6J60CA	SMA6J60CA-Q
SMA6J64CA	SMA6J64CA-Q
SMA6J70CA	SMA6J70CA-Q
SMA6J75CA	SMA6J75CA-Q
SMA6J78CA	SMA6J78CA-Q
SMA6J85CA	SMA6J85CA-Q
SMA6J90CA	SMA6J90CA-Q

[illegible]

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Bourns® AEC-Q101 Compliant TVS Diodes

PRICE LIST - EUR

October, 2020

Model	DC EUR	MIN	MULT	AC
SMA6J				
SMA6J45A-85A	0.048	10,000	5,000	A
SMA6J90A-130A	0.088	10,000	5,000	A
SMA6J45CA-90CA	0.105	10,000	5,000	A
SMA6J-Q				
SMA6J45A-85A-Q	0.064	10,000	5,000	A
SMA6J90A-130A-Q	0.105	10,000	5,000	A
SMA6J45CA-90CA-Q	0.125	10,000	5,000	A
SMBJ-Q				
SMBJA5.0A-85A-Q	0.068	12,000	3,000	A
SMBJ90A-170A-Q	0.085	12,000	3,000	A
SMBJ180A-220A-Q	0.106	12,000	3,000	A
SMBJ5.0CA-58CA-Q	0.082	12,000	3,000	A
SMBJ60CA-85CA-Q	0.094	12,000	3,000	A
SMBJ90CA-220CA-Q	0.114	12,000	3,000	A
SMBJA5.0A-85A-QH	0.068	2,000	2,000	C
SMBJ90A-170A-QH	0.085	2,000	2,000	C
SMBJ180A-220A-QH	0.106	2,000	2,000	C
SMBJ5.0CA-58CA-QH	0.082	2,000	2,000	C
SMBJ60CA-85CA-QH	0.094	2,000	2,000	C
SMBJ90CA-220CA-QH	0.114	2,000	2,000	C
P6SMB-Q				
P6SMB6.8A-100A-Q	0.068	12,000	3,000	A
P6SMB110-200A-Q	0.085	12,000	3,000	A
P6SMB220A-250A-Q	0.106	12,000	3,000	A
P6SMB6.8CA-68CA-Q	0.082	12,000	3,000	A
P6SMB75CA-100CA-Q	0.094	12,000	3,000	A
P6SMB110CA-250CA-Q	0.114	12,000	3,000	A

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