



# XClampR® Transient Voltage Suppressors

## IN SMC (DO-214AB) AND DO-218AB PACKAGES

### APPLICATIONS

Protect sensitive electronics  
against voltage transients



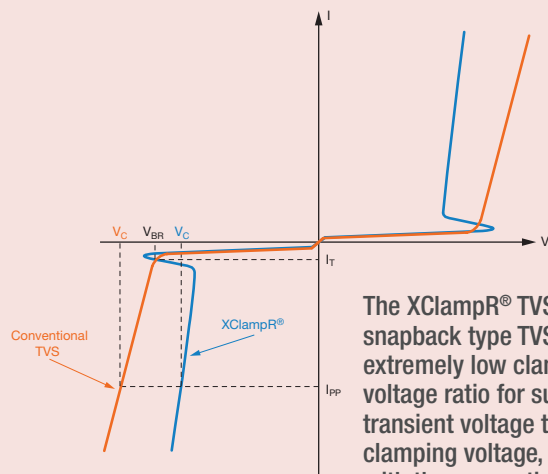
AUTOMOTIVE



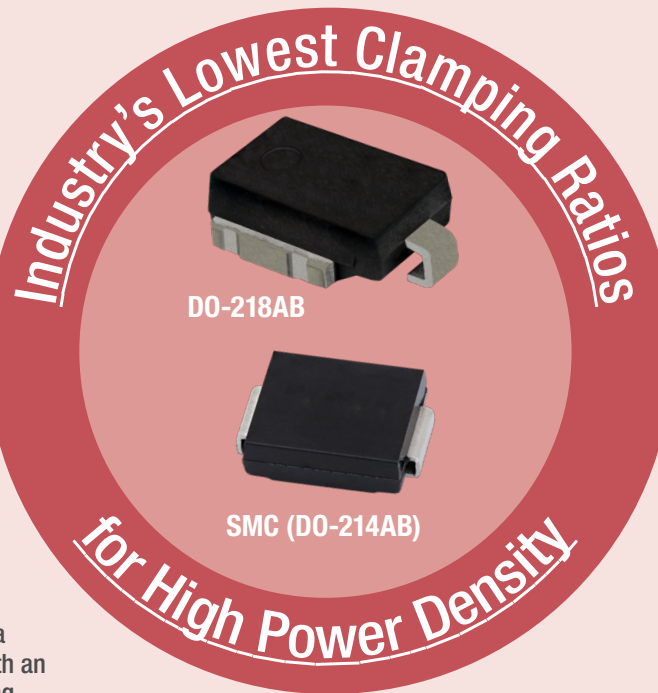
CONSUMER



INDUSTRIAL



The XClampR® TVS is a snapback type TVS with an extremely low clamping voltage ratio for suppressing transient voltage to a lower clamping voltage, compared with the conventional TVS.



### FEATURES

- High peak pulse power dissipation
- 180 A at 10/1000  $\mu$ s, equivalent to a 7 kW power rating of conventional TVS in the SMC (DO-214AB)
- 120 A and 180 A at 10/10 000  $\mu$ s, equivalent to a 4.6 kW and 7 kW power rating of conventional TVS, respectively, in the DO-218AB
- Wide operating temperature range of -55 °C to 175 °C

Automotive load dump protection and signal line protection in industrial robot arms and telecom systems

Bidirectional polarity

Meets **MSL level 1**, per J-STD-020

LF maximum peak for 245 °C

### XClampR® TVS

| Part Number               | $V_{WM}$ | $V_{BR}$         | $V_{CL}$ Max. | $P_{PPM}$ (10/1000 $\mu$ s) | $P_{PPM}$ (10/10 000 $\mu$ s) | $I_{PPM}$ (10/1000 $\mu$ s) | $I_{PPM}$ (10/10 000 $\mu$ s) | $I_R$ Max.  | $T_J$ Max. | Polarity      | Package        |
|---------------------------|----------|------------------|---------------|-----------------------------|-------------------------------|-----------------------------|-------------------------------|-------------|------------|---------------|----------------|
| <a href="#">XLD5A24CA</a> | 24 V     | 26.7 V to 29.5 V | 26 V          | 7700 W                      | 4600 W                        | -                           | 120 A                         | 1.0 $\mu$ A | 175 °C     | Bidirectional | DO-218AB       |
| <a href="#">XLD8A24CA</a> | 24 V     | 26.7 V to 29.5 V | 26 V          | 11 000 W                    | 7000 W                        | -                           | 180 A                         | 1.0 $\mu$ A | 175 °C     | Bidirectional | DO-218AB       |
| <a href="#">XMC7K24CA</a> | 24 V     | 26.7 V to 29.5 V | 24 V          | 7000 W                      | -                             | 180 A                       | -                             | 1.0 $\mu$ A | 175 °C     | Bidirectional | SMC (DO-214AB) |

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