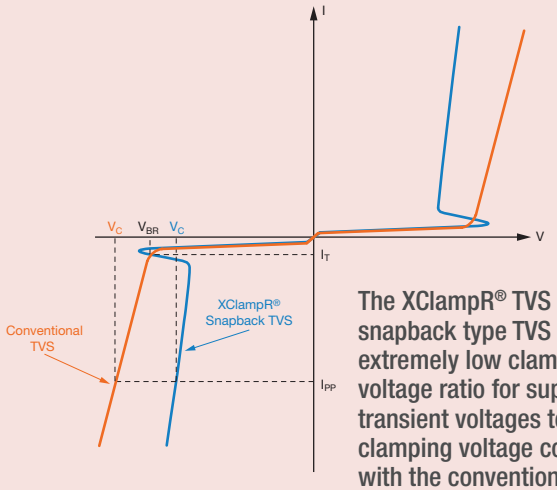
XClampR® Snapback Transient Voltage Suppressors
IN DO-218AC AND SMC (DO-214AB) PACKAGES

APPLICATIONS

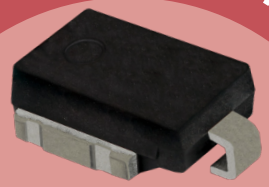
Protect sensitive electronics against voltage transients

AUTOMOTIVE CONSUMER INDUSTRIAL



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

Industry's Lowest Clamping Ratios for High Power Density



DO-218AC

SMC (DO-214AB)

FEATURES

- High peak pulse power dissipation
- 180 A at 10/1000 µs, equivalent to a 7 kW power rating of conventional TVS in the SMC (DO-214AB)
- 120 A and 180 A at 10/10 000 µs, equivalent to a 4.6 kW and 7 kW power rating of conventional TVS, respectively, in the DO-218AC
- 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

Part Number	V_{WM}	V_{BR}	V_{CL} Max.	P_{PPM} (10/1000 µs)	P_{PPM} (10/10 000 µs)	I_{PPM} (10/1000 µs)	I_{PPM} (10/10 000 µs)	I_R Max.	T_J Max.	Polarity	Package
XLD5A24CA	24 V	26.7 V to 29.5 V	26 V	7700 W	4600 W	-	120 A	1.0 µA	175 °C	Bidirectional	DO-218AB
XLD8A24CA	24 V	26.7 V to 29.5 V	26 V	11 000 W	7000 W	-	180 A	1.0 µA	175 °C	Bidirectional	DO-218AB
XMC7K24CA	24 V	26.7 V to 29.5 V	24 V	7000 W	-	180 A	-	1.0 µA	175 °C	Bidirectional	SMC (DO-214AB)

For technical questions: DiodesAmericas@vishay.com, DiodesEurope@vishay.com, or DiodesAsia@vishay.com

IG47734046-2609