

### Transient Voltage Surge Suppressor TVS Surge<sup>3</sup> Series



Catalog Symbol: TVS (voltage) (ac or dc) (Diode or MOV) Voltage Rating: 12Vdc, 24Vdc, 48Vdc 120Vac, 240Vdc

Agency Information: UL Recognized (UL 1449) for AC products (UL 497B) for DC products

CSA Approved

Catalog	Numbers	
Catalog	numbers	

TVS12DCD	TVS24DCD	TVS48DCD	
TVS120ACD	TVS120ACM	TVS240ACD	
TVS240ACM			

#### Suggested replacements Discontinued Replacement SPD description/ TVS models catalog numbers\* data sheet # TVS12DCD **BSPD12DING** 4-wire data signal, # 2161 TVS24DCD BSPD24DING 4-wire data signal, # 2161 TVS48DCD BSPD48DING 4-wire data signal, # 2161 1-pole Type 2 low voltage TVS120ACD BSPM1A150D200LV AC/DC power, # 2056 1-pole Type 2 low voltage TVS120ACM BSPM1A150D200LV AC/DC power, # 2056 1-pole Type 2 low voltage TVS240ACD BSPM1A275D350LV AC/DC power, # 2056 1-pole Type 2 low voltage TVS240ACM BSPM1A275D350LV AC/DC power, # 2056

\* Suggested replacement catalog numbers are DIN-Rail mount and are not a drop-in replacement for any TVS model already installed.

Replacement requires purchasing catalog number that includes DIN-Rail mount base and SPD module. See listed data sheet numbers for complete information.

### **Material Specifications:**

Suppressor:	Case: 20% glass filled PES (Polyethersulfone)
	Terminals: 110 Copper
	Terminal Plating: Electroless tin
Holder:	Case: 15% glass filled PBT (Polybutylene Terephthalate)
	Interface Clips: CDA 7025
	Interface Clip Plating: Electroless tin
	Contact Lubricant: Fluoroether grease
	Box Lug: Copper
	DIN Rail Springs: Stainless steel

# Discontinued

### **Instructions and Specifications**

Model	Voltage Application	MCOV	Technology	SVR 500A, 8x20µs	Surge Current Rating	UL	Label Color
TVS12DCD	12Vdc	14Vdc	SASD	36Vdc	2kA	UL497B	Red
TVS22DCD	24Vdc	28Vdc	SASD	58Vdc	2kA	UL497B	White
TVS48DCD	48Vdc	57Vdc	SASD	90Vdc	2kA	UL497B	Black
TVS120ACD	120Vac	140Vac	SASD	330Vac	7kA	UL1449	Blue
TVS120ACM	120Vac	140Vac	MOV	500Vac	18kA	UL1449	Grey
TVS240ACD	240Vac	280Vac	SASD	600Vac	7kA	UL1449	Blue
TVS240ACM	240Vac	280Vac	MOV	800Vac	18kA	UL1449	Grey



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### **Product Specifications:**

- 1. All TVS devices have non-polarized electrical connections as shown.
- 2. Suppressor voltage characteristics per chart.
- 3. Suppressor to provide non-interrupted service.
- 4. Enclosure material is 94V0 flame and explosion resistant.
- 5. Product markings show manufacturer, part number and safety warnings as required.
- 6. Mechanical dimensions as noted.
- 7. Suppressor Status LED as shown.
- 8. AC units operate on either 50 or 60 Hz.

Suggested replacements				
Discontinued TVS models	Replacement catalog numbers*	SPD description/ data sheet #		
TVS12DCD	BSPD12DING	4-wire data signal, # 2161		
TVS24DCD	BSPD24DING	4-wire data signal, # 2161		
TVS48DCD	BSPD48DING	4-wire data signal, # 2161		
TVS120ACD	BSPM1A150D200LV	1-pole Type 2 low voltage AC/DC power, # 2056		
TVS120ACM	BSPM1A150D200LV	1-pole Type 2 low voltage AC/DC power, # 2056		
TVS240ACD	BSPM1A275D350LV	1-pole Type 2 low voltage AC/DC power, # 2056		
TVS240ACM	BSPM1A275D350LV	1-pole Type 2 low voltage AC/DC power, # 2056		

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