

**Tyco/Electronics**  
**Raychem Circuit Protection**  
 308 Constitution Drive  
 Menlo Park, CA 94025-1164  
 Phone: 800-227-4856  
 Fax: 800-227-4866

**PolySwitch®**  
**PTC Devices**  
 Overcurrent Protection Device

**PRODUCT: VTP170XS**

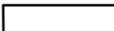
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 REV DATE: SEPTEMBER 3, 2003  
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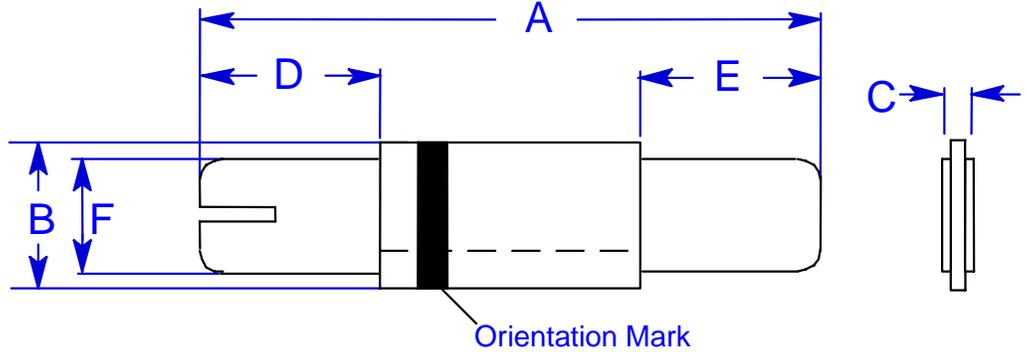
**Specification Status: Released**

**Electrical Rating**  
**Voltage: 16V MAX**  
**Current: 100A MAX**

Leads:  
 Nickel: 0.125 mm nominal

Tape:  
 Polyester

Marking:  
 Manufacturer's Mark  
 V17 - Part Identification  
 - Lot Identification



**TABLE I. DIMENSIONS:**

|      | A      |        | B      |        | C      |        | D      |        | E      |        | F      |        |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|      | Min    | MAX    |
| mm:  | 20.9   | 22.9   | 4.9    | 5.3    | 0.5    | 0.8    | 6.0    | 8.6    | 6.0    | 8.6    | 3.9    | 4.1    |
| in*: | (0.82) | (0.90) | (0.19) | (0.21) | (0.02) | (0.03) | (0.23) | (0.34) | (0.23) | (0.34) | (0.15) | (0.16) |

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS:**

| I HOLD | CURRENT TRIP LIMITS |      |                     |      |                      |      |                      |      | TIME TO TRIP              | REFERENCE RESISTANCE |       | ONE-HOUR POST-TRIP RESISTANCE |       | TRIPPED-STATE POWER DISSIPATION |                        |
|--------|---------------------|------|---------------------|------|----------------------|------|----------------------|------|---------------------------|----------------------|-------|-------------------------------|-------|---------------------------------|------------------------|
|        | AMPS 25°C HOLD      |      | AMPS AT 0°C AT 25°C |      | AMPS AT 60°C AT 25°C |      | AMPS AT 80°C AT 25°C |      |                           | OHMS AT 25°C         |       | OHMS AT 25°C                  |       |                                 | WATTS AT 25°C, 16V MAX |
|        | HOLD                | TRIP | HOLD                | TRIP | HOLD                 | TRIP | HOLD                 | TRIP | SECONDS AT 25°C, 8.5A MAX | MIN                  | MAX   | TYP                           | MAX   |                                 |                        |
|        | 1.7                 | 2.2  | 4.5                 | 1.7  | 3.4                  | 0.8  | 1.8                  | --   | --                        | 5.0                  | 0.030 | 0.052                         | 0.075 | 0.105                           | 1.4                    |

Agency Recognition: UL, CSA, TUV  
 Reference Documents: PS300  
 Precedence: This specification takes precedence over documents referenced herein.  
 Effectivity: Reference documents shall be the issue in effect on the date of invitation for bid.  
 CAUTION: Operation beyond the rated voltage or current may result in rupture, electrical arcing or flame.