

# PTSAHT0805

## Automotive high temperature SMD PTC fuses

**Applications**

- Infotainment
- In-vehicle navigation
- Telematics
- Car lighting
- Power window and seat control
- Instrument clusters
- PCB trace protection

**Environmental compliance****Product features**

- AEC-Q200 qualified
- Positive temperature coefficient (PTC)
- Surface mount resettable fuse
- Compact 0805 (2012 metric) footprint
- High temperature
- Voltage rating 16 V
- Current rating from 0.10 A
- Fast time-to-trip

**Part number system/ordering:****PTSAHT080516V010**

- PT= PTC resettable fuse
- S= Surface mount
- AHT= Automotive with high operating temperature
- 0805= Dimension code
- 16V= Maximum voltage
- 010= Ihold current rating (010= 0.10 A)



### General specifications

Operating temperature: -40 °C to + 125 °C (with derating)

Storage temperature: -10 °C to + 40 °C

Storage relative humidity: ≤70%

Storage condition: Keep away from corrosive atmosphere and sunlight

Passive aging: IEC60738-1, +60 °C, 1000 hours, ≤20%  
IEC60738-1, +85 °C, 1000 hours, ≤20%

Humidity aging: +85 °C, 85% RH, 100 hours, ≤20%

Thermal shock: IEC60738-1, +85 °C/ -40 °C, 20 cycles, ≤50%

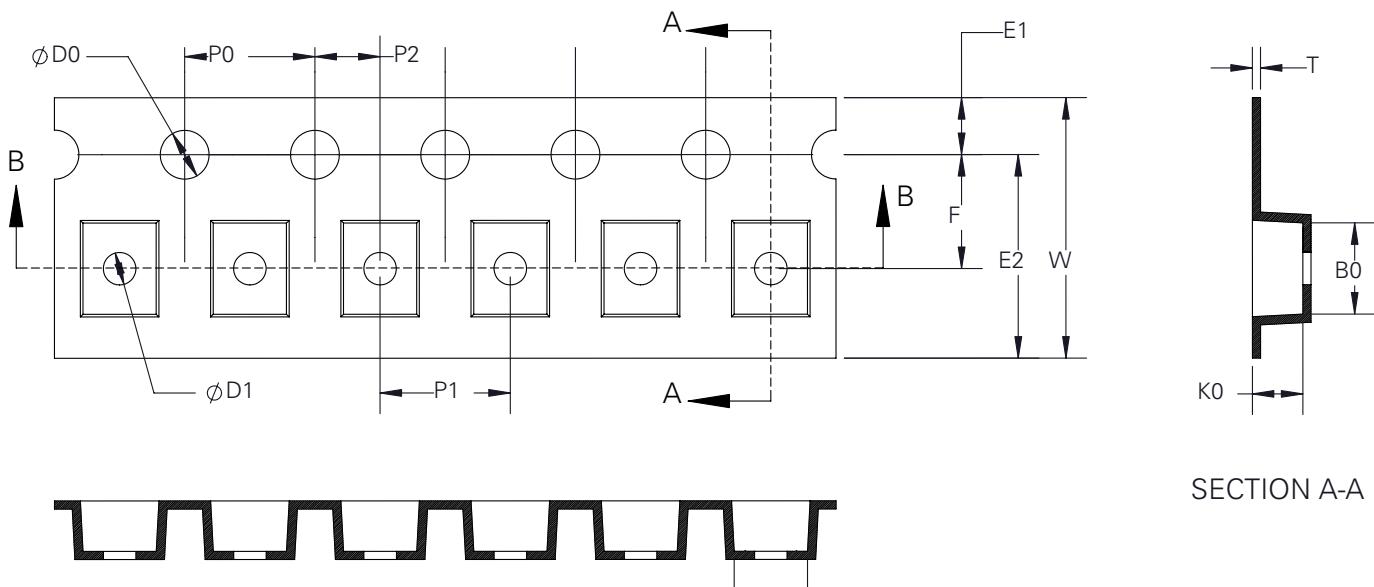
Trip cycle life: UL1434, Vmax, Imax, 100 cycles, no arcing or burning

Trip endurance: UL1434, Vmax,  $I_{trip} \leq I \leq I_{max}$ , 2 hours, no arcing or burning

MSL test: J-STD-020, MSL=1, pass and no visible damage

### Packaging information

Supplied in tape and reel packaging, 4000 parts per 7.0" (178 mm) diameter reel (EIA-481 compliant)



<b>W</b>	<b>F</b>	<b>E1</b>	<b>E2</b>	<b>P0</b>	<b>P1</b>	<b>P2</b>	<b>D0</b>	<b>D1</b>	<b>A0</b>	<b>B0</b>	<b>K0</b>	<b>T</b>
8.00 ± 0.30	3.50 ± 0.10	1.75 ± 0.10	-	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	1.50 + 0.10/-0	-	1.68 ± 0.10	2.44 ± 0.10	1.04 ± 0.10	0.22 ± 0.05