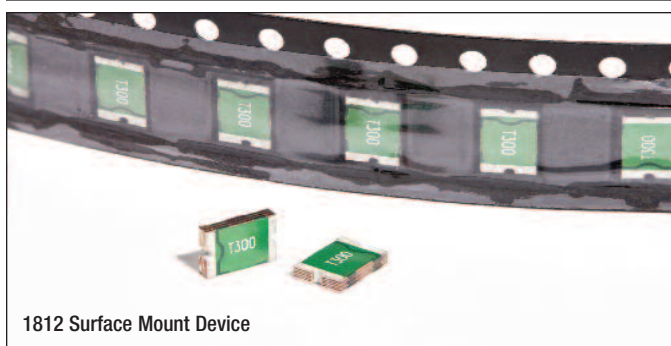


6-60 Volt DC Surface Mount, PolyTron™ PTC Devices

PolyTron™ PTS1812 Series



1812 Surface Mount Device

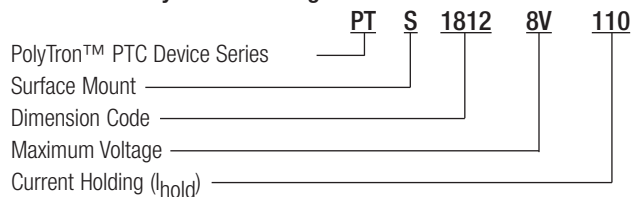
Description

- PolyTron™ surface mount PTC device
- 6 to 60 volts
- Current ratings from 0.1 to 3.0 amps
- Fast time-to-trip
- Low resistance
- Halogen free
- Lead free
- RoHS compliant

Agency Information

- cURus: Recognized Card: File E343021 (I_{hold} 0.1-3.0A)
- TUV File: R 50192872

Part Number System/Ordering



Tape and Reel Packaging/Quantities

- PTS181216V035, PTS181216V050, PTS181213V075, PTS18128V110, PTS18126V125, PTS18128V150, PTS18128V160, PTS18128V200 - 2000 PTC devices per reel
- All Others - 1000 PTC devices per reel

Applications

- Medical equipment
- Telecommunications
- Rechargeable battery packs
- White goods
- Computers and peripherals

Specifications

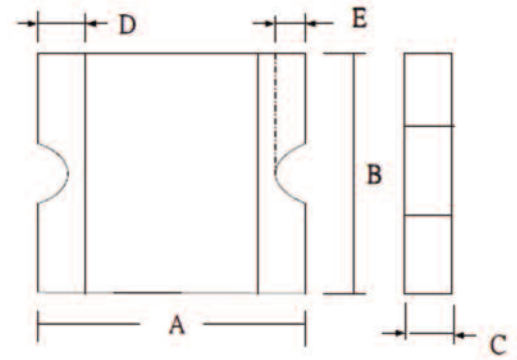
Catalog Number	Mark On Part	V_{max} (Vdc)	I_{max} (Amps)	I_{hold} @23°C (Amps)	I_{trip} @23°C (Amps)	Pd Typ. (W)	Time to Trip (Max.) (Amps) (Sec)		Resistance (Ω)		Agency Information	
									Initial (R_i)	Post Trip (R_1)		
									Min.	Max.	cURus	TUV
PTS181230V010	T010	30	100	0.10	0.30	0.8	0.5	1.5	1.6	15	X	X
PTS181260V014	T014	60	10	0.14	0.34	0.8	1.5	0.15	1.5	6	X	X
PTS181230V020	T020	30	100	0.20	0.40	0.8	8	0.02	0.8	5	X	X
PTS181216V035	T035	16	100	0.35	0.70	0.8	8	0.1	0.32	1.5	X	X
PTS181216V050	T050	16	100	0.50	1.00	0.8	8	0.15	0.15	1	X	X
PTS181213V075	T075	13.2	100	0.75	1.50	0.8	8	0.2	0.11	0.45	X	X
PTS181224V075	T075 24	24	100	0.75	1.50	0.8	8	0.2	0.11	0.4	X	X
PTS181233V075	T075 33	33	20	0.75	1.50	0.8	8	0.2	0.11	0.4	X	X
PTS18128V110	T110	8	100	1.10	2.20	0.8	8	0.3	0.04	0.21	X	X
PTS181216V110	T110 16	16	100	1.10	2.20	0.8	8	0.5	0.06	0.18	X	X
PTS181224V110	T110 24	24	20	1.10	2.20	0.8	8	0.5	0.06	0.2	X	X
PTS18126V125	T125	6	100	1.25	2.50	0.8	8	0.4	0.05	0.14	X	X
PTS181216V125	T125 16	16	100	1.25	2.50	0.8	8	0.4	0.05	0.14	X	X
PTS18128V150	T150	8	100	1.50	3.00	0.9	8	0.3	0.04	0.11	X	X
PTS181212V150	T150 12	12	100	1.50	3.00	0.9	8	0.5	0.04	0.11	X	X
PTS181224V150	T150 24	24	20	1.50	3.00	0.9	8	1.5	0.04	0.12	X	X
PTS18128V160	T160	8	100	1.60	3.20	0.8	8	1.0	0.03	0.1	X	X
PTS18128V200	T200	8	100	2.00	3.50	1.2	8	2.0	0.02	0.06	X	X
PTS18126V260	T260	6	100	2.60	5.00	1.2	8	2.5	0.015	0.047	X	X
PTS18126V300	T300	6	100	3.00	5.00	1.2	8	4.0	0.012	0.04	X	X

- Notes:
- I_{hold} – Hold current: Maximum current device will pass without interruption in 23°C still air.
 - I_{trip} – Trip current: Minimum current that will switch the device from low resistance to high resistance in 23°C still air.
 - V_{max} : Maximum continuous voltage device can withstand without damage at rated current.
 - I_{max} : Maximum fault current device can withstand without damage at rated voltage.
 - P_d : Power dissipated from device when in the tripped state in 23°C still air.
 - R_i (min.): Minimum resistance of device as supplied at 23°C unless otherwise specified.
 - R_1 (max.): Maximum resistance of device when measured one hour post reflow (SMD) or one hour post trip (radial-leaded device) at 23°C unless otherwise specified.

Dimensions - mm

Part Number	A		B		C		D		E	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.	Max.	
PTS181230V010	4.37	4.73	3.07	3.41	0.50	0.90	0.20	0.15	0.65	
PTS181260V014	4.37	4.73	3.07	3.41	0.50	0.90	0.20	0.15	0.65	
PTS181230V020	4.37	4.73	3.07	3.41	0.50	0.90	0.20	0.15	0.65	
PTS181216V035	4.37	4.73	3.07	3.41	0.28	0.68	0.20	0.15	0.65	
PTS181216V050	4.37	4.73	3.07	3.41	0.28	0.68	0.20	0.15	0.65	
PTS181213V075	4.37	4.73	3.07	3.41	0.28	0.68	0.20	0.15	0.65	
PTS181224V075	4.37	4.73	3.07	3.41	0.60	1.20	0.20	0.15	0.65	
PTS181233V075	4.37	4.73	3.07	3.41	0.60	1.20	0.20	0.15	0.65	
PTS18128V110	4.37	4.73	3.07	3.41	0.28	0.68	0.20	0.15	0.65	
PTS181216V110	4.37	4.73	3.07	3.41	0.60	1.00	0.20	0.15	0.65	
PTS181224V110	4.37	4.73	3.07	3.41	0.60	1.00	0.20	0.15	0.65	
PTS18126V125	4.37	4.73	3.07	3.41	0.28	0.68	0.20	0.15	0.65	
PTS181216V125	4.37	4.73	3.07	3.41	0.30	0.90	0.20	0.15	0.65	
PTS18128V150	4.37	4.73	3.07	3.41	0.28	0.68	0.20	0.15	0.65	
PTS181212V150	4.37	4.73	3.07	3.41	0.60	1.00	0.20	0.15	0.65	
PTS181224V150	4.37	4.73	3.07	3.41	0.70	1.50	0.20	0.15	0.65	
PTS18128V160	4.37	4.73	3.07	3.41	0.28	0.68	0.20	0.15	0.65	
PTS18128V200	4.37	4.73	3.07	3.41	0.35	0.90	0.20	0.15	0.65	
PTS18126V260	4.37	4.73	3.07	3.41	0.35	0.90	0.20	0.15	0.65	
PTS18126V300	4.37	4.73	3.07	3.41	0.60	1.20	0.20	0.15	0.65	

1812 Package



Time to Trip Curves at 23°C

