Product specifications

	Vmax ¹	lmax ²	lhold ³	ltrip⁴	Pd⁵	Time 1	to trip (maximum)	Resistance ⁶			Agency	information
Part Number ⁷	(V _{dc})	(A)	(A)	(A)	typical (W)	(A)	(seconds)	Initial (R.) minimuṁ (Ω)	Post trip (R ₁) maximum (Ω)	Part marking	cURus	τυν
PTS120660V005	60	100	0.05	0.15	0.4	0.25	1.5	3.6	50	TH	х	Х
PTS120660V010	60	100	0.10	0.25	0.4	0.5	1.0	1.6	15	ΤY	х	Х
PTS120630V012	30	100	0.12	0.29	0.5	1	0.2	1.4	6	TJ	х	Х
PTS120630V016	30	100	0.16	0.37	0.5	1	0.3	1.1	4.5	TK	х	Х
PTS120624V020	24	100	0.20	0.42	0.6	8	0.1	0.65	2.6	TL	х	Х
PTS120616V025	16	100	0.25	0.50	0.6	8	0.08	0.55	2.3	TN	х	Х
PTS120616V035	16	100	0.35	0.75	0.6	8	0.1	0.3	1.2	ТР	х	Х
PTS12066V050	6	100	0.50	1.0	0.6	8	0.1	0.15	0.7	ΤQ	х	Х
PTS120615V050	15	100	0.50	1.0	0.6	8	0.1	0.15	0.7	TQ1	х	Х
PTS12066V075	6	100	0.75	1.5	0.6	8	0.2	0.1	0.29	TR	х	Х
PTS12066V100	6	100	1.0	1.8	0.8	8	0.3	0.065	0.21	TS	х	Х
PTS12066V110	6	100	1.1	2.2	0.8	8	0.3	0.07	0.2	TU	х	Х
PTS12066V150	6	100	1.5	3.0	0.8	8	1	0.04	0.12	TV	х	Х
PTS12066V200	6	100	2.0	3.5	1.0	8	1.5	0.02	0.08	TX	Х	Х

1. Vmax: Maximum continuous voltage the device can withstand without damage at current

2. Imax: Maximum fault current the device can withstand without damage at rated voltage

3. Ihold: Maximum current the device will pass without interruption at +23 °C still air

4. Itrip: Minimum current that will transition the device from low resistance to high resistance at +23 °C still air

5. Pd: Power dissipated from the device when in tripped state at +23 $^{\circ}\text{C}$ still air

6. R: Minimum resistance of the device at +23 °C

 $\rm R_{s}^{'}$ Maximum resistance of the device when measured one hour post reflow at +23 °C 7. Part Number Definition: PTS1206xVxxx

PTS1206 = Product code and size xV = Voltage rating (Vmax) xxx = Ampere rating (Ihold)

Dimensions-mm



Part number A minimum A maximum PTS120660V005 0.50 0.90 PTS120660V010 0.50 0.90 PTS120630V012 0.35 0.90 PTS120630V016 0.28 0.68 PTS120624V020 0.28 0.68 PTS120616V025 0.28 0.68 PTS120616V035 0.28 0.68 PTS12066V050 0.28 0.68 PTS120615V050 0.28 1.06 PTS12066V075 0.28 0.85 PTS12066V100 0.40 0.88 PTS12066V110 0.40 0.88 PTS12066V150 0.55 1.15 PTS12066V200 0.55 1.15

Recommended pad layout-mm



PTS1206 6-60 Volt DC surface mount resettable PTC fuses

Time to trip curves at +23°C



Temperature derating curve



General specifications

Operating temperature: -40 °C to + 85 °C (with derating)
Storage temperature: -10 °C to + 40 °C
Storage relative humidity: 75%
Storage conditon: Keep away form corrosive atmosphere and sunlight
Storage duration: 1 year
Thermal shock: (20 cycles - 40 °C to + 85 °C) -33% typical resistance change
Humidity: +85 °C, 85% relative humidity, 1000 hours ±5% typical resistance change
Resistance to solvents: MIL-STD- 202 Method 215

Packaging information-mm

Supplied in tape and reel packaging, 5000 parts per 7.0" diameter reel (EIA-481 compliant)

PTS120630V012, PTS120630V016, PTS120624V020, PTS120616V025, PTS120616V035, PTS12066V050, PTS12066V075, PTS120660V005, PTS12066V100, PTS12066V100, PTS12066V110



User Direction of Feed _____

Section A-A

Supplied in tape and reel packaging, 2500 parts per 7.0" diameter reel (EIA-481 compliant) PTS120615V050, PTS12066V150, PTS12066V200



User Direction of Feed —

Section A-A

PTS1206 6-60 Volt DC surface mount resettable PTC fuses

Solder reflow profile



 $^{T_{c}\,-5^{\circ}C}$ Table 1 - Standard SnPb solder (T_c)

Package thickness	Volume mm3 <350	Volume mm3 ≥350
<2.5 mm)	235 °C	220 °C
≥2.5 mm	220 °C	220 °C

Table 2 - Lead (Pb) free solder (T_c)

Package thickness	Volume mm ³ <350	Volume mm ³ 350 - 2000	Volume mm ³ >2000
<1.6 mm	260 °C	260 °C	260 °C
1.6 – 2.5 mm	260 °C	250 °C	245 °C
>2.5 mm	250 °C	245 °C	245 °C

Reference J-STD-020

Profile feature	Standard SnPb solder	Lead (Pb) free solder		
Preheat and soak • Temperature min. (T _{smin})	100 °C	150 °C		
• Temperature max. (T _{smax})	150 °C	200 °C		
• Time (T _{smin} to T _{smax}) (t _s)	60-120 seconds	60-120 seconds		
Ramp up rate TL to T _p	3 °C/ second max.	3 °C/ second max.		
Liquidous temperature (TL) Time (tL) maintained above ${\rm T_L}$	183 °C 60-150 seconds	217 °C 60-150 seconds		
Peak package body temperature (Tp)*	Table 1	Table 2		
Time $(t_p)^*$ within 5 °C of the specified classification temperature (T_c)	20 seconds*	30 seconds*		
Ramp-down rate (T _p to T _L)	6 °C/ second max.	6 °C/ second max.		
Time 25 °C to peak temperature	6 minutes max.	8 minutes max.		

* Tolerance for peak profile temperature (T_n) is defined as a supplier minimum and a user maximum.

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