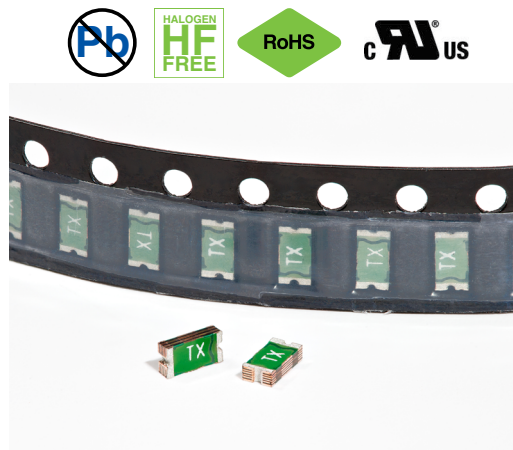


# PTS1206

## 6-60 Volt DC surface mount resettable PTC fuses



### Applications

- USB peripherals
- Plug and play protection for motherboards and peripherals
- Power tools
- Battery and port protection for mobile/smart phones
- Game console port protection
- Set-top-boxes
- Tablets, notebooks, netbooks, laptops and desktops
- Rechargeable battery packs
- Digital cameras
- Appliances and white goods
- Consumer electronics

### Product features

- Positive Temperature Coefficient (PTC)
- SMT resettable fuse
- Low resistance
- Fast time-to-trip
- Current range from 0.05A to 2.0A
- 1206 (3216 metric) compact footprint

### Agency information

- cURus Recognition file number: E343021
- TUV: R50192872

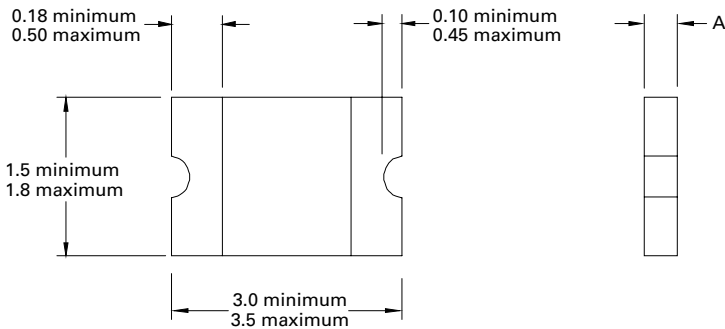
**Product specifications**

Part Number <sup>7</sup>	V <sub>max</sub> <sup>1</sup>	I <sub>max</sub> <sup>2</sup>	I <sub>hold</sub> <sup>3</sup>	I <sub>trip</sub> <sup>4</sup>	P <sub>d</sub> <sup>5</sup>	Time to trip (maximum)		Resistance <sup>6</sup>		Agency information		
	(V <sub>dc</sub> )	(A)	(A)	(A)	typical (W)	(A)	(seconds)	Initial (R) <sub>i</sub> minimum (Ω)	Post trip (R) <sub>p</sub> maximum (Ω)	Part marking	cURus	TUV
PTS120660V005	60	100	0.05	0.15	0.4	0.25	1.5	3.6	50	TH	x	x
PTS120660V010	60	100	0.10	0.25	0.4	0.5	1.0	1.6	15	TY	x	x
PTS120630V012	30	100	0.12	0.29	0.5	1	0.2	1.4	6	TJ	x	x
PTS120630V016	30	100	0.16	0.37	0.5	1	0.3	1.1	4.5	TK	x	x
PTS120624V020	24	100	0.20	0.42	0.6	8	0.1	0.65	2.6	TL	x	x
PTS120616V025	16	100	0.25	0.50	0.6	8	0.08	0.55	2.3	TN	x	x
PTS120616V035	16	100	0.35	0.75	0.6	8	0.1	0.3	1.2	TP	x	x
PTS12066V050	6	100	0.50	1.0	0.6	8	0.1	0.15	0.7	TQ	x	x
PTS120615V050	15	100	0.50	1.0	0.6	8	0.1	0.15	0.7	TQ1	x	x
PTS12066V075	6	100	0.75	1.5	0.6	8	0.2	0.1	0.29	TR	x	x
PTS12066V100	6	100	1.0	1.8	0.8	8	0.3	0.065	0.21	TS	x	x
PTS12066V110	6	100	1.1	2.2	0.8	8	0.3	0.07	0.2	TU	x	x
PTS12066V150	6	100	1.5	3.0	0.8	8	1	0.04	0.12	TV	x	x
PTS12066V200	6	100	2.0	3.5	1.0	8	1.5	0.02	0.08	TX	x	x

- V<sub>max</sub>: Maximum continuous voltage the device can withstand without damage at current
- I<sub>max</sub>: Maximum fault current the device can withstand without damage at rated voltage
- I<sub>hold</sub>: Maximum current the device will pass without interruption at +23 °C still air
- I<sub>trip</sub>: Minimum current that will transition the device from low resistance to high resistance at +23 °C still air
- P<sub>d</sub>: Power dissipated from the device when in tripped state at +23 °C still air

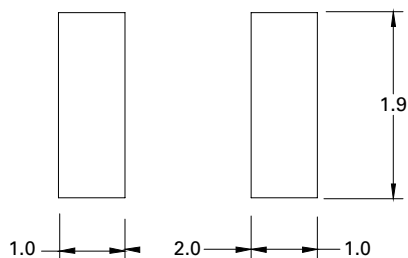
- R<sub>i</sub>: Minimum resistance of the device at +23 °C  
R<sub>p</sub>: Maximum resistance of the device when measured one hour post reflow at +23 °C
- Part Number Definition: PTS1206xVxxx  
PTS1206 = Product code and size  
xV = Voltage rating (V<sub>max</sub>)  
xxx = Ampere rating (I<sub>hold</sub>)

**Dimensions—mm**

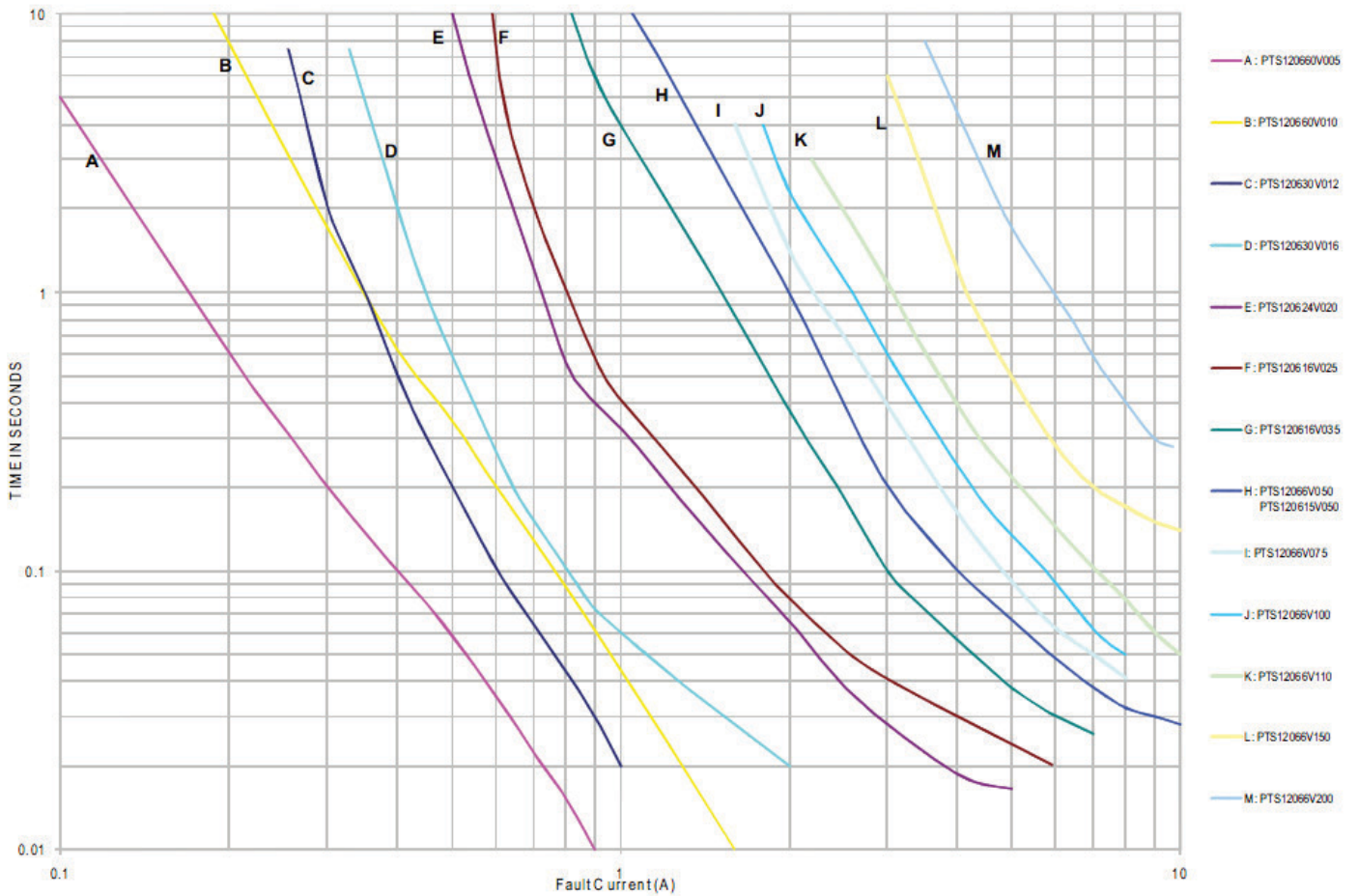


Part number	A minimum	A maximum
PTS120660V005	0.50	0.90
PTS120660V010	0.50	0.90
PTS120630V012	0.35	0.90
PTS120630V016	0.28	0.68
PTS120624V020	0.28	0.68
PTS120616V025	0.28	0.68
PTS120616V035	0.28	0.68
PTS12066V050	0.28	0.68
PTS120615V050	0.28	1.06
PTS12066V075	0.28	0.85
PTS12066V100	0.40	0.88
PTS12066V110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

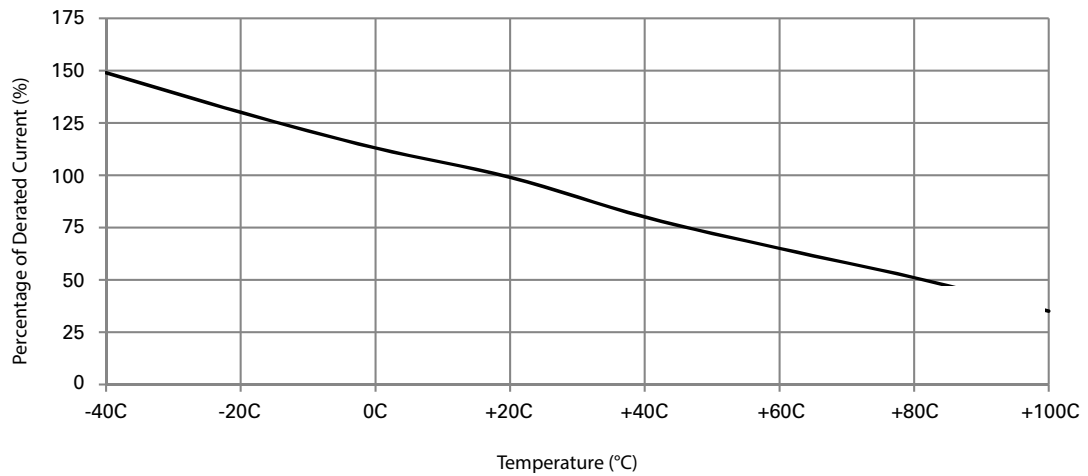
**Recommended pad layout—mm**



Time to trip curves at +23°C



Temperature derating curve



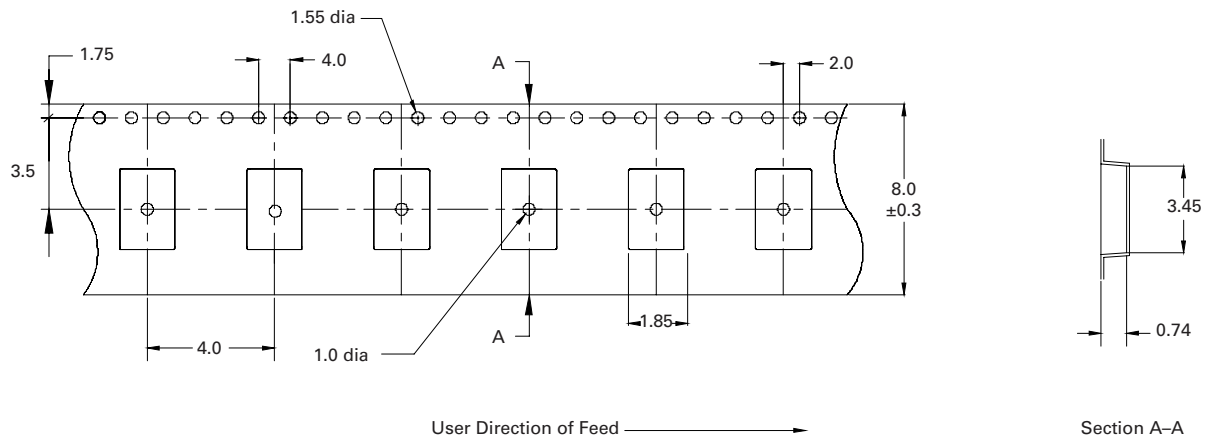
### General specifications

Operating temperature: -40 °C to + 85 °C (with derating)
Storage temperature: -10 °C to + 40 °C
Storage relative humidity: 75%
Storage condition: Keep away from 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, PTS120660V010, PTS12066V100, PTS12066V110



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

PTS120615V050, PTS12066V150, PTS12066V200

