

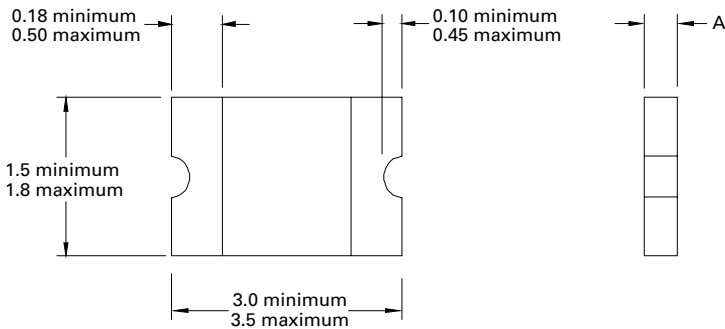
Product specifications

Part Number ⁷	V _{max} ¹	I _{max} ²	I _{hold} ³	I _{trip} ⁴	P _d ⁵	Time to trip (maximum)		Resistance ⁶		Agency information		
	(V _{dc})	(A)	(A)	(A)	typical (W)	(A)	(seconds)	Initial (R _i) minimum (Ω)	Post trip (R _t) 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

1. V_{max}: Maximum continuous voltage the device can withstand without damage at current
2. I_{max}: Maximum fault current the device can withstand without damage at rated voltage
3. I_{hold}: Maximum current the device will pass without interruption at +23 °C still air
4. I_{trip}: Minimum current that will transition the device from low resistance to high resistance at +23 °C still air
5. P_d: Power dissipated from the device when in tripped state at +23 °C still air

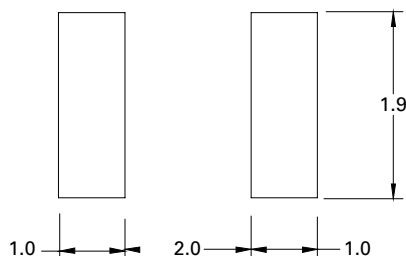
6. R_i: Minimum resistance of the device at +23 °C
R_t: Maximum resistance of the device when measured one hour post reflow at +23 °C
7. Part Number Definition: PTS1206xVxxx
PTS1206 = Product code and size
xV = Voltage rating (V_{max})
xxx = Ampere rating (I_{hold})

Dimensions—mm

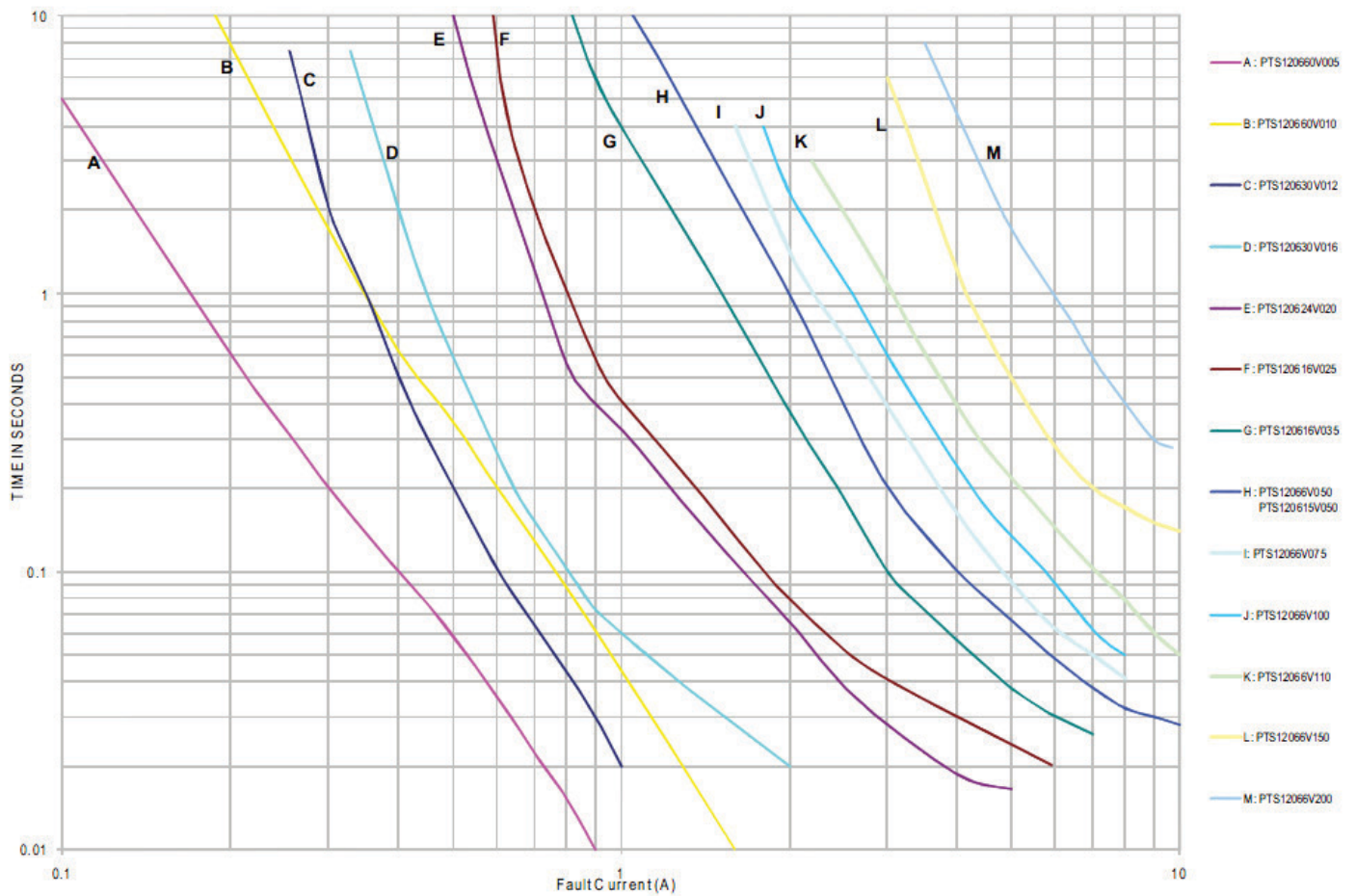


Part number	A minimum	A maximum
PTS120660V005	0.50	0.90
PTS120660V010	0.50	0.90
PTS120630V012	0.35	0.90
PTS120630V016	0.28	0.68
PTS120624V020	0.28	0.68
PTS120616V025	0.28	0.68
PTS120616V035	0.28	0.68
PTS12066V050	0.28	0.68
PTS120615V050	0.28	1.06
PTS12066V075	0.28	0.85
PTS12066V100	0.40	0.88
PTS12066V110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

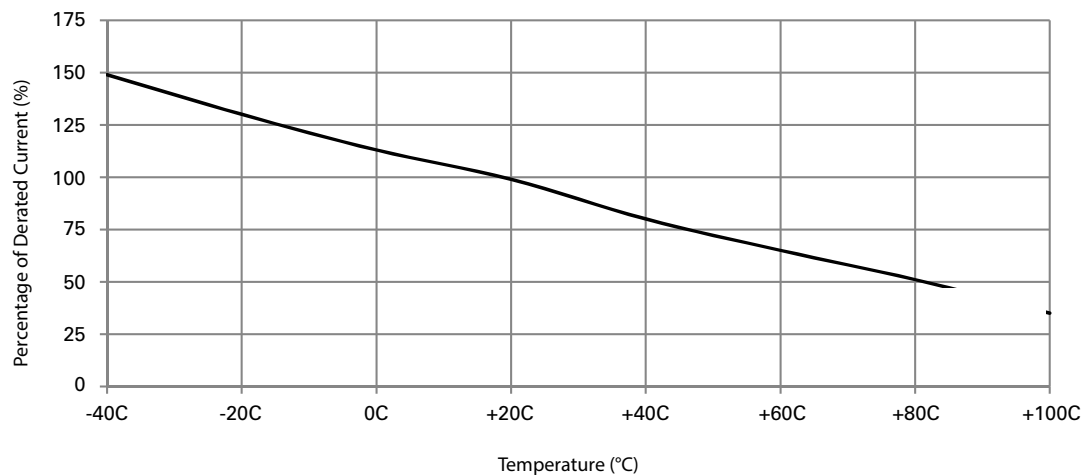
Recommended pad layout—mm



Time to trip curves at +23°C



Temperature derating curve



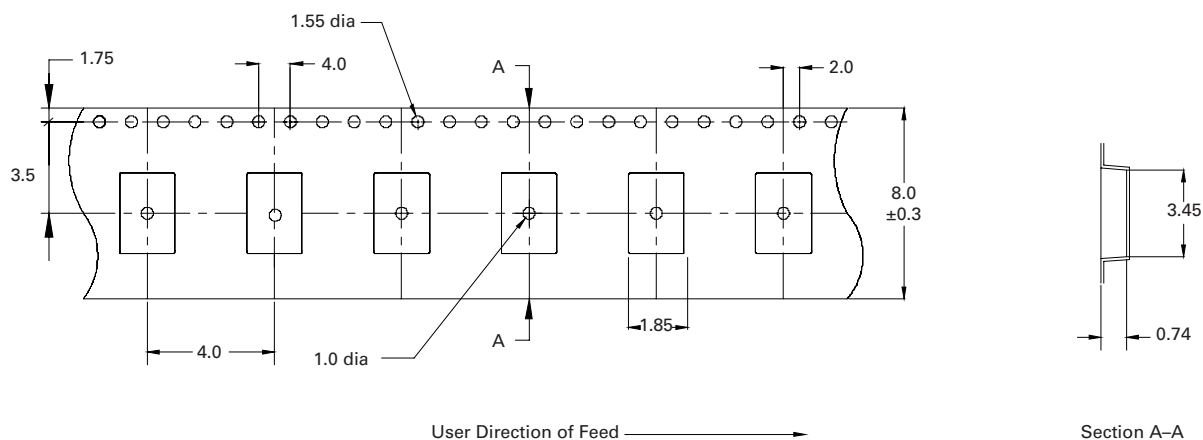
General specifications

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

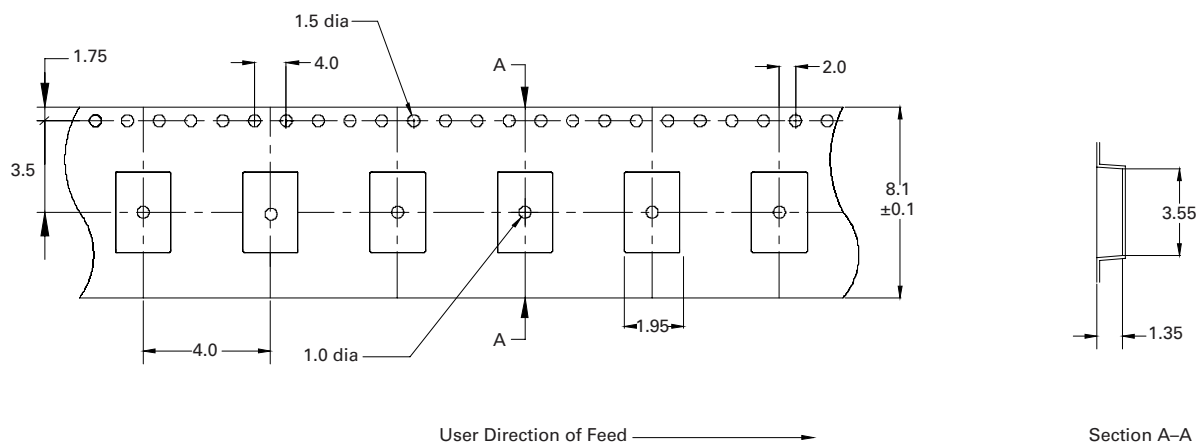
Supplied in tape and reel packaging, 5000 parts per 7.0" diameter reel (EIA-481 compliant)

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



Solder reflow profile

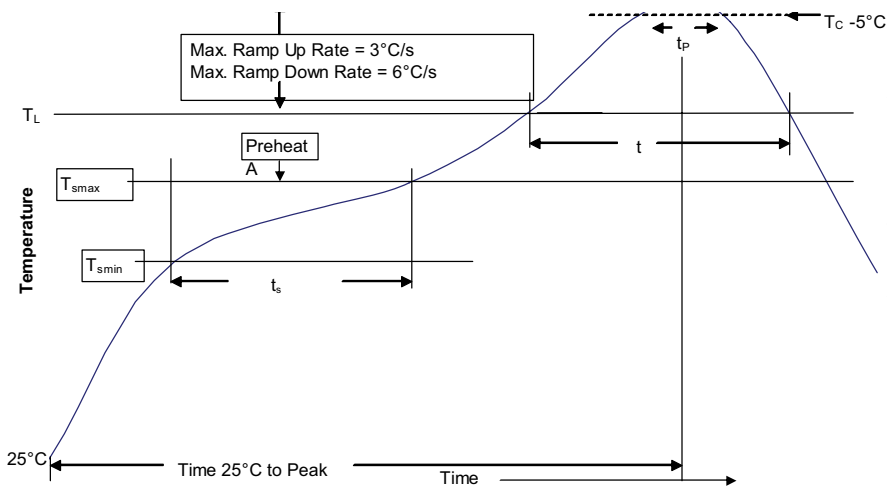


Table 1 - Standard SnPb solder (T_c)

Package thickness	Volume mm ³ <350	Volume mm ³ ≥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 T_L to T_p	3 °C/ second max.	3 °C/ second max.
Liquidous temperature (T_L)	183 °C	217 °C
Time (t_L) maintained above T_L	60-150 seconds	60-150 seconds
Peak package body temperature (T_p)*	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_p) is defined as a supplier minimum and a user maximum.

Life Support Policy: Eaton does not authorize the use of any of its products for use in life support devices or systems without the express written approval of an officer of the Company. Life support systems are devices which support or sustain life, and whose failure to perform, when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.

Eaton reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Eaton also reserves the right to change or update, without notice, any technical information contained in this bulletin.

Eaton
Electronics Division
1000 Eaton Boulevard
Cleveland, OH 44122
United States
Eaton.com/electronics

© 2021 Eaton
All Rights Reserved
Printed in USA
Publication No. 4397 PCN21006
March 2021

Eaton is a registered trademark.

All other trademarks are property of their respective owners.

Follow us on social media to get the latest product and support information.

