

JPD Series

Polymeric PTC Fuses – SMD Type (1206, 1210, 1812 Size Code)

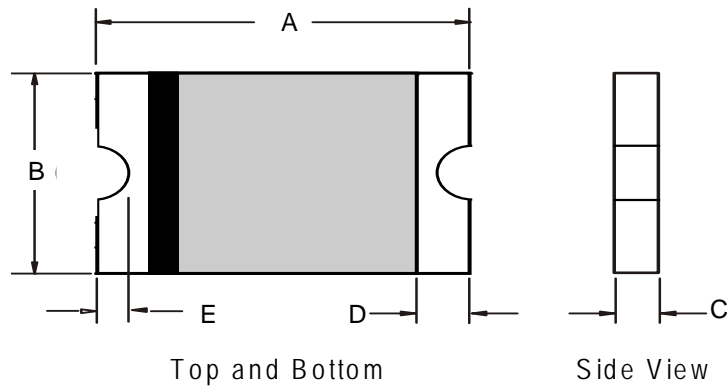
TRIGON
COMPONENTS



FEATURES

- Surface mount device
- High PTC strength
- Operation Current Range:
0.2 A~0.75A (1206 size),
0.05 A~1.1A (1210 size),
0.14 A~1.6A (1812 size)
- Temperature Range: -40°C~85°C

CHIP TYPE:



Dimension (mm)

Unit:mm

Model	A		B		C		D		E	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
JPD1206020	3.00	3.50	1.50	1.80	0.38	0.62	0.20	--	--	--
JPD1206025	3.00	3.50	1.50	1.80	0.38	0.62	0.20	--	--	--
JPD1206035	3.00	3.50	1.50	1.80	0.38	0.62	0.20	--	--	--
JPD1206050	3.00	3.50	1.50	1.80	0.38	0.62	0.20	--	--	--
JPD1206075	3.00	3.50	1.50	1.80	0.28	0.48	0.20	--	--	--
JPD1210005	3.00	3.43	2.35	2.80	0.62	0.89	0.25	--	0.20	--
JPD1210010	3.00	3.43	2.35	2.80	0.62	0.89	0.25	--	0.20	--
JPD1210035	3.00	3.43	2.35	2.80	0.62	0.89	0.25	--	0.20	--
JPD1210050	3.00	3.43	2.35	2.80	0.38	0.62	0.25	--	0.20	--
JPD1210075	3.00	3.43	2.35	2.80	0.38	0.62	0.25	--	0.20	--
JPD1210110	3.00	3.43	2.35	2.80	0.28	0.48	0.25	--	0.20	--
JPD1812014	4.37	4.73	3.07	3.41	0.62	0.89	0.30	--	0.25	--
JPD1812020	4.37	4.73	3.07	3.41	0.62	0.89	0.30	--	0.25	--
JPD1812050	4.37	4.73	3.07	3.41	0.38	0.62	0.30	--	0.25	--
JPD1812075	4.37	4.73	3.07	3.41	0.38	0.62	0.30	--	0.25	--
JPD1812110	4.37	4.73	3.07	3.41	0.38	0.62	0.30	--	0.25	--
JPD1812125	4.37	4.73	3.07	3.41	0.38	0.62	0.30	--	0.25	--
JPD1812150	4.37	4.73	3.07	3.41	0.28	0.48	0.30	--	0.25	--
JPD1812160	4.37	4.73	3.07	3.41	0.28	0.48	0.30	--	0.25	--

Thermistor

ORDERING CODE

JPD 1206 035
(1) (2) (3)

(1) Series Name

(2) Size Code

(3) Rated Current Code

※Please refer to complete
Ordering Code JPD-Ord for
more ordering options.

JPD Series

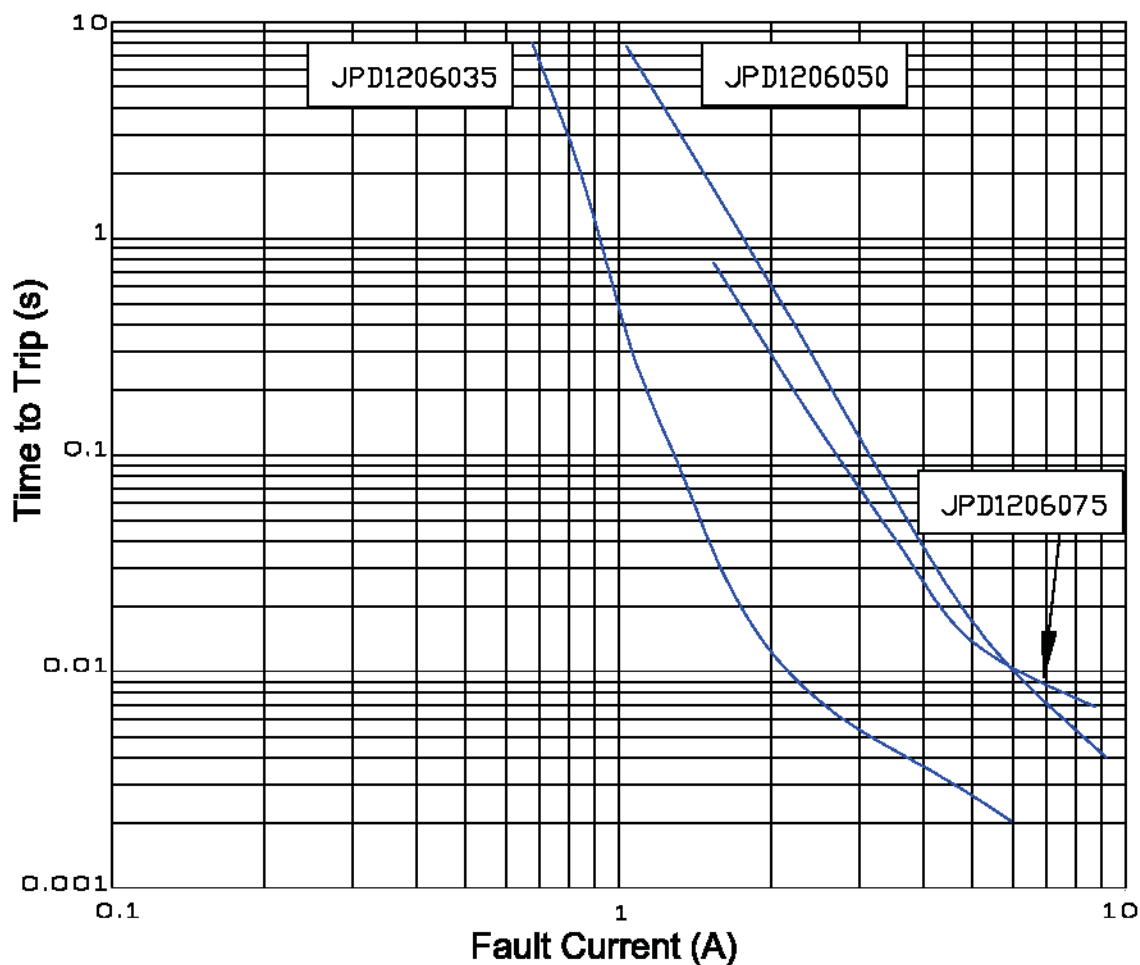
Polymeric PTC Fuses – SMD Type (1206 Size Code)

TRIGON
COMPONENTS

Electrical Characteristic at 20°C

Model	V _{max} (Volts)	I _{max} (Amps)	I _{hold} (Amps)	I _{trip} (Amps)	Max. Time-to-trip		R _{min} (Ω)	R _{max} (Ω)	R1 _{max} (Ω)	P _(d) (Ω)
					(Amps)	(S)				
JPD1206020	16	40	0.20	0.40	8.0	0.05	0.32	--	2.50	0.6
JPD1206025	16	40	0.25	0.50	8.0	0.08	0.32	--	2.30	0.6
JPD1206035	6.0	40	0.35	0.70	8.0	0.1	0.30	--	1.30	0.6
JPD1206050	6.0	40	0.50	1.00	8.0	0.1	0.15	--	0.70	0.6
JPD1206075	6.0	40	0.75	1.50	8.0	0.2	0.09	--	0.29	0.6

Typical Time To Trip Curves at 20°C



JPD Series

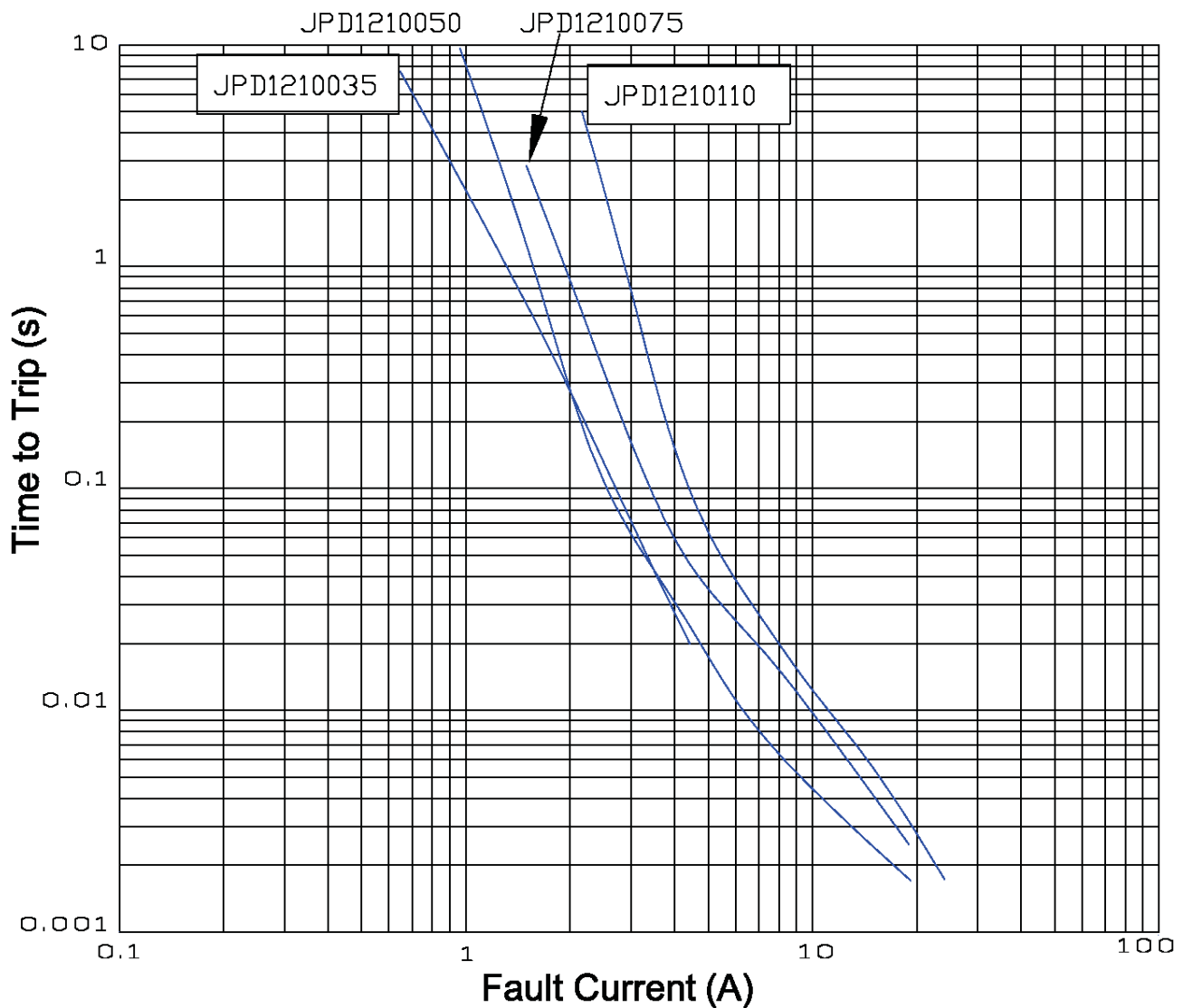
Polymeric PTC Fuses – SMD Type (1210 Size Code)

TRIGON
COMPONENTS

Electrical Characteristic at 20°C

Model	V _{max} (Volts)	I _{max} (Amps)	I _{hold} (Amps)	I _{trip} (Amps)	Max. Time-to-trip		R _{min} (Ω)	R _{max} (Ω)	R1 _{max} (Ω)	P _(d) (Ω)
					(Amps)	(S)				
JPD1210005	30	10	0.05	0.15	0.25	1.50	1.80	--	50.0	0.6
JPD1210010	30	10	0.10	0.30	0.50	1.50	1.00	--	15.0	0.6
JPD1210035	6	40	0.35	0.70	8.0	0.2	0.25	--	1.30	0.6
JPD1210050	13.2	40	0.50	1.00	5.0	0.1	0.20	0.55	0.90	0.6
JPD1210075	6	40	0.75	1.50	8.0	0.1	0.09	0.29	0.40	0.6
JPD1210110	6	40	1.10	2.20	5.0	1.0	0.07	0.14	0.21	0.6

Typical Time to Trip curves at 20°C



JPD Series

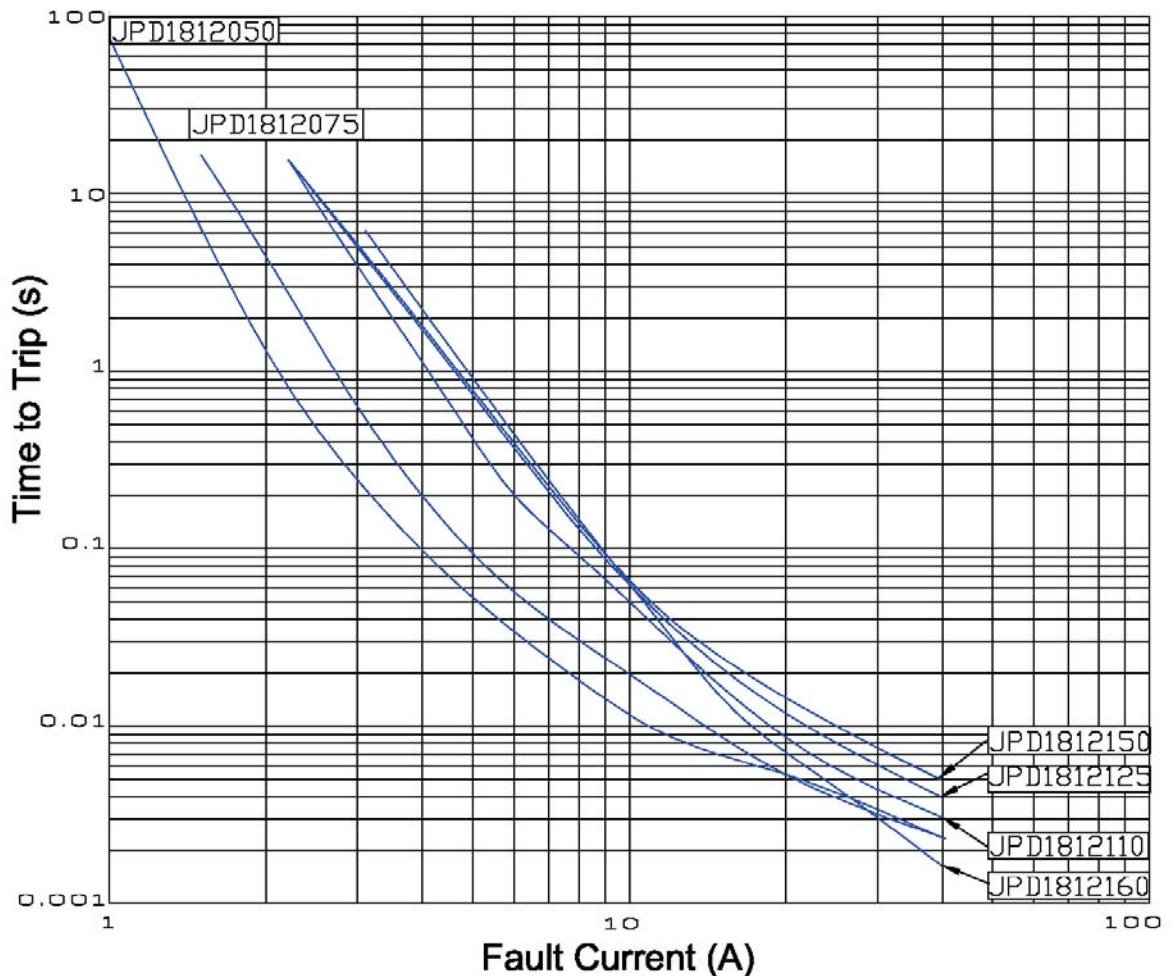
Polymeric PTC Fuses – SMD Type (1812 Size Code)

TRIGON
COMPONENTS

Electrical Characteristic at 20°C

Model	V _{max} (Volts)	I _{max} (Amps)	I _{hold} (Amps)	I _{trip} (Amps)	Max. Time-to-trip		R _{min} (Ω)	R _{max} (Ω)	R1 _{max} (Ω)	P _(d) (Ω)
					(Amps)	(S)				
JPD1812014	60	10	0.14	0.34	1.5	0.15	0.80	--	6.00	0.8
JPD1812020	30	10	0.20	0.40	8.0	0.02	0.30	--	5.00	0.8
JPD1812050	15	40	0.50	1.00	8.0	0.15	0.15	0.60	1.00	0.6
JPD1812075	13.2	40	0.75	1.50	8.0	0.20	0.09	0.26	0.45	0.6
JPD1812110	16	40	1.10	2.20	8.0	0.3	0.04	0.12	0.21	0.6
JPD1812125	15	40	1.25	2.50	8.0	0.4	0.035	--	0.14	0.8
JPD1812150	6.0	40	1.50	3.00	8.0	0.5	0.03	--	0.11	0.8
JPD1812160	8.0	40	1.60	3.20	8.0	1.0	0.03	--	0.10	0.8

Typical Time to Trip curves at 20°C



JPD Series

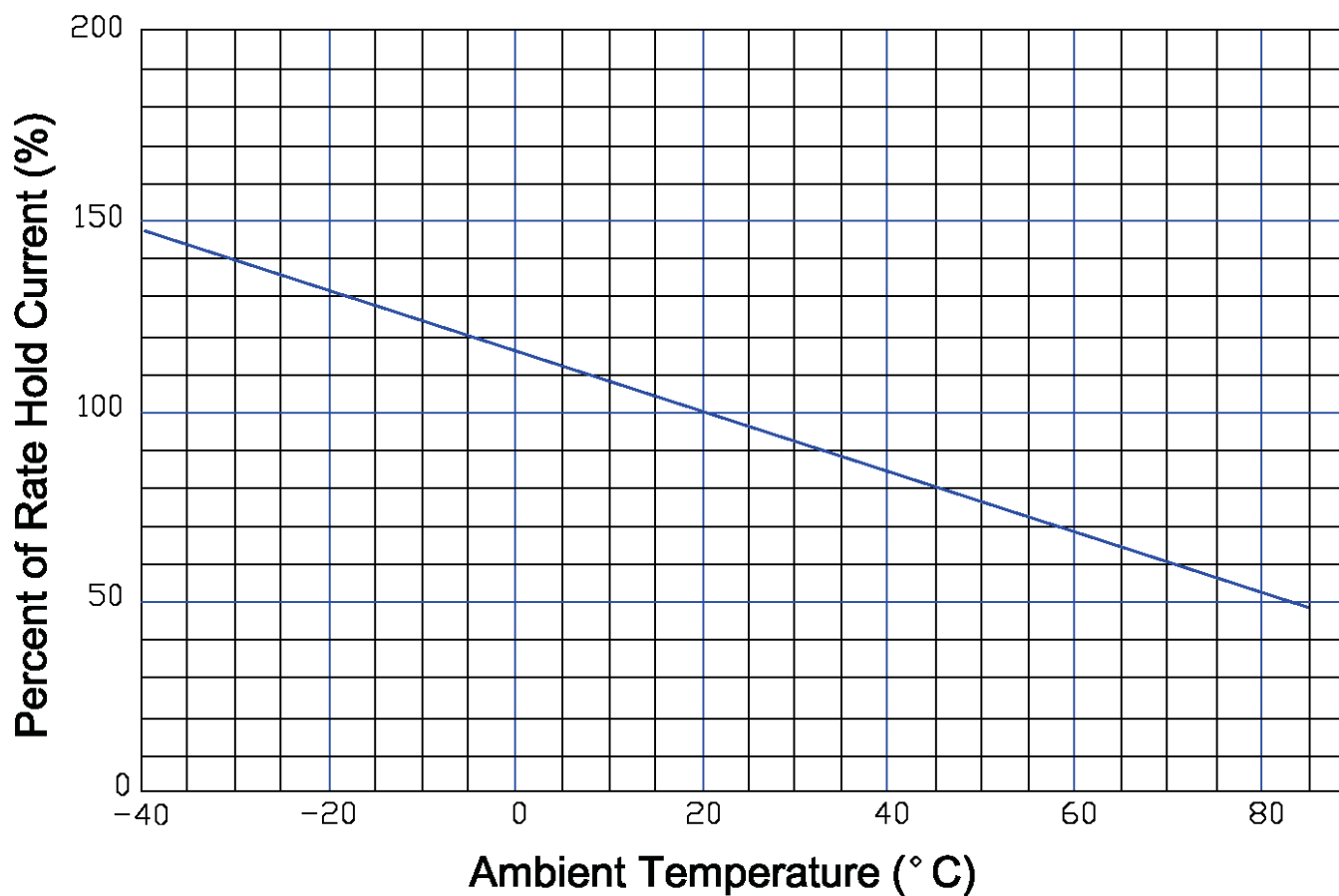
Polymeric PTC Fuses – SMD Type (1206 Size Code)

TRIGON
COMPONENTS

Thermal Derating Chart

Unit: Amps

TEMP(°C)	-40	-20	0	23	40	50	60	70	85
JPD1206020	0.29	0.26	0.23	0.20	0.16	0.14	0.10	0.29	0.26
JPD1206025	0.36	0.32	0.28	0.25	0.20	0.17	0.12	0.36	0.32
JPD1206035	0.51	0.46	0.40	0.35	0.30	0.24	0.18	0.51	0.46
JPD1206050	0.76	0.68	0.59	0.50	0.44	0.35	0.26	0.76	0.68
JPD1206075	1.11	1.00	0.85	0.75	0.67	0.52	0.42	1.11	1.00



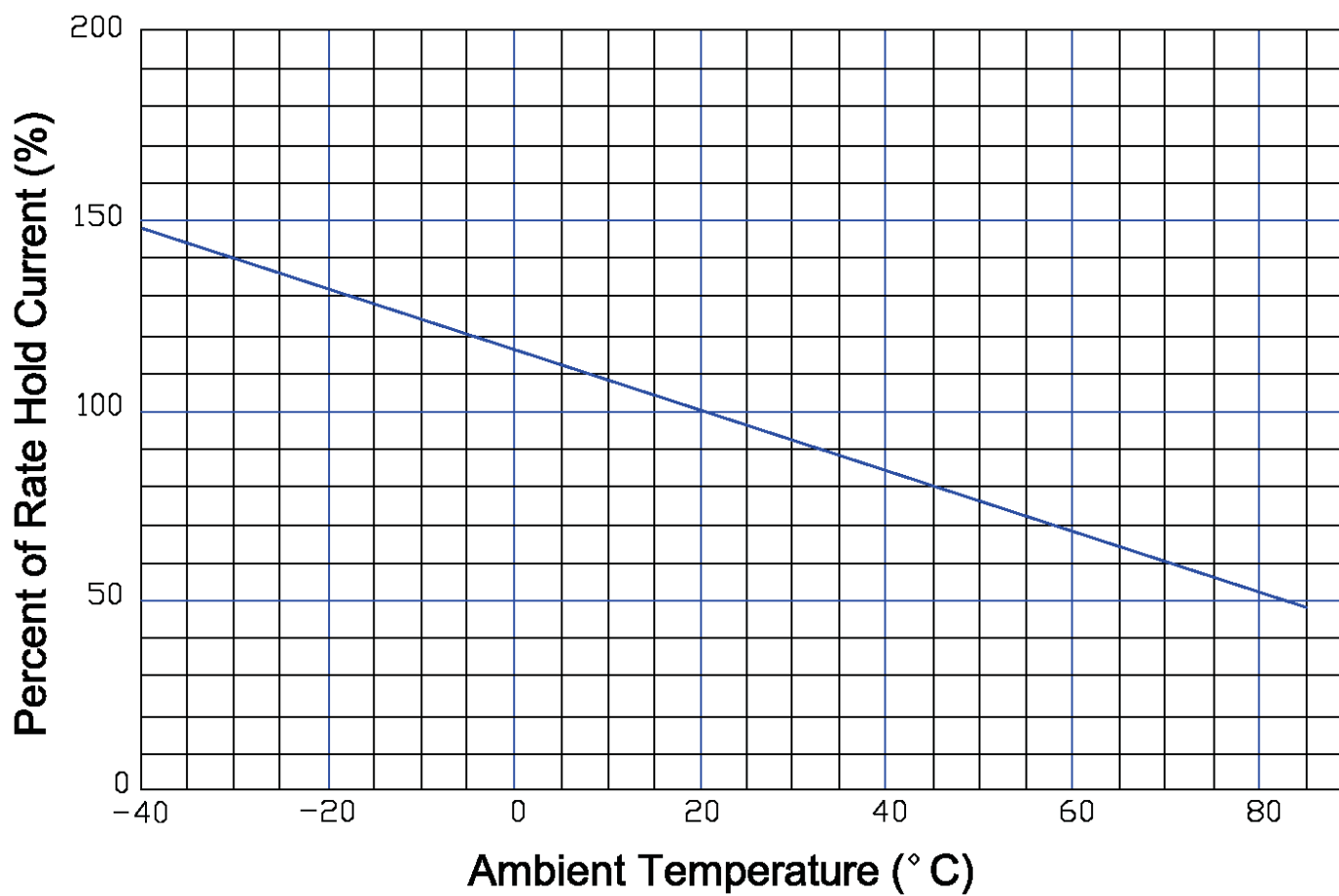
JPD Series

Polymeric PTC Fuses – SMD Type (1210 Size Code)

TRIGON
COMPONENTS

Thermal Derating Chart

TEMP(°C)	-40	-20	0	20	40	60	85
JPD1210005	0.072	0.065	0.057	0.05	0.042	0.035	0.025
JPD1210010	0.145	0.13	0.115	0.10	0.085	0.07	0.05
JPD1210035	0.50	0.52	0.40	0.35	0.29	0.24	0.17
JPD1210050	0.76	0.66	0.58	0.50	0.42	0.35	0.23
JPD1210075	1.10	0.97	0.86	0.75	0.64	0.55	0.39
JPD1210110	1.60	1.42	1.26	1.10	0.94	0.80	0.58



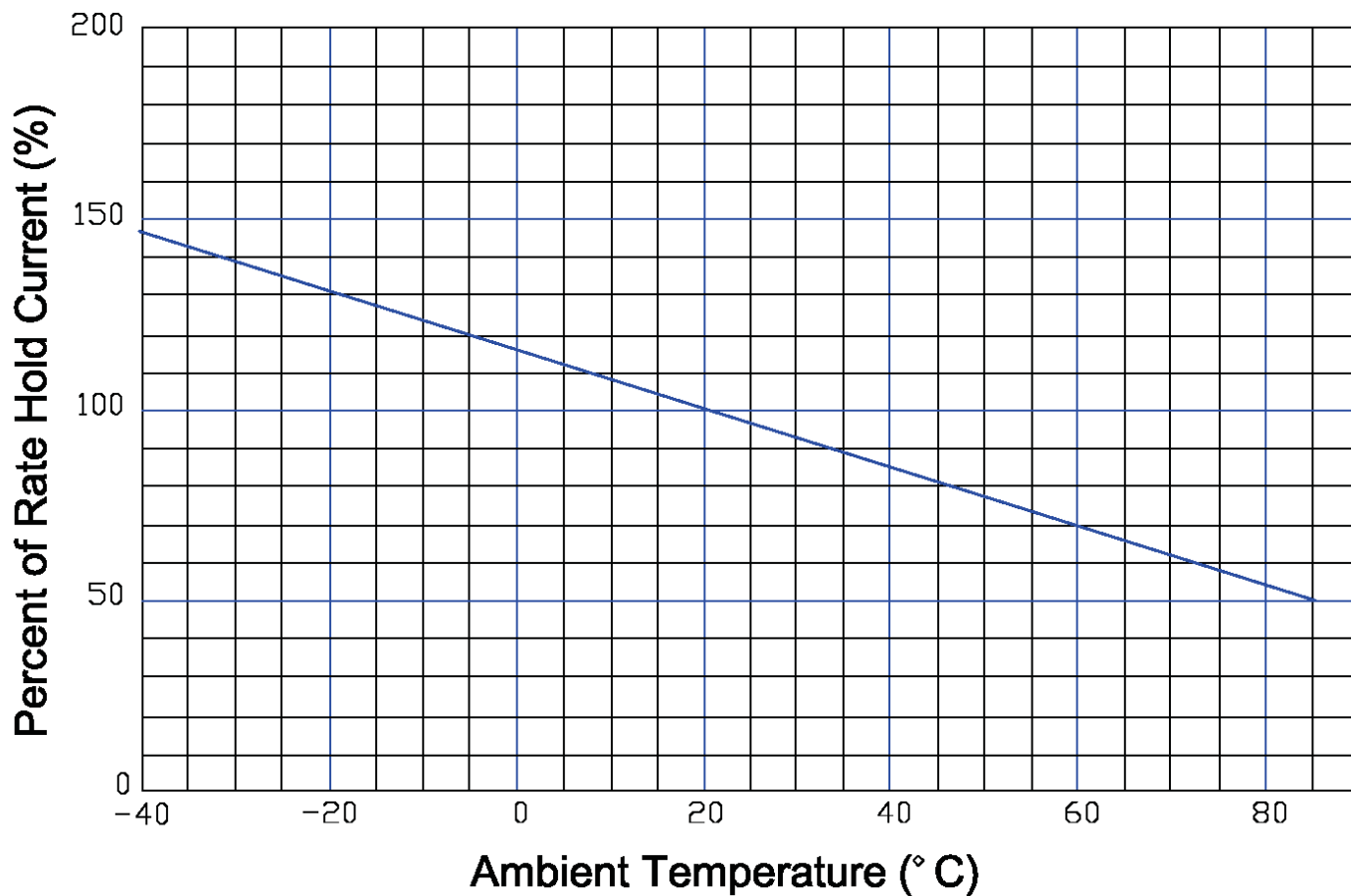
JPD Series

Polymeric PTC Fuses – SMD Type (1812 Size Code)

TRIGON
COMPONENTS

Thermal Derating Chart

TEMP(°C)	-40	-20	0	20	40	60	85
JPD1812014	0.20	0.18	0.16	0.14	0.11	0.095	0.07
JPD1812020	0.29	0.26	0.23	0.20	0.17	0.14	0.10
JPD1812050	0.76	0.67	0.55	0.50	0.45	0.35	0.23
JPD1812075	1.10	0.99	0.87	0.75	0.63	0.49	0.35
JPD1812110	1.60	1.45	1.28	1.10	0.92	0.71	0.52
JPD1812125	1.81	1.62	1.43	1.25	1.05	0.85	0.62
JPD1812150	2.30	2.05	1.77	1.50	1.23	0.95	0.61
JPD1812160	2.32	2.08	1.80	1.60	1.35	1.10	0.80



Thermistor