

Resettable PPTC Fuse



Features

- Broadest range of Thru - Hole devices available in the industry
- Cured, Flame retardant epoxy, meets UL 94 V-0 requirement
- Available in lead-free version

Agency Approval and Environmental Compliance

Agency	File Number	Regulation
UL, C-UL	E346046	
TÜV	R50213367	

16V XG Series

Thru - Hole Devices

Electrical Characteristics

Part Number	I_H	I_T	T_{trip}	I_{MAX}	V_{MAX}	$P_{D Typ}$	R_{MIN}	$R1_{MAX}$
	A	A	A/S	A	V	W	Ω	Ω
XG250	2.5	4.7	12.5/5.0	100	16	1.0	0.022	0.053
XG300	3.0	5.1	15.0/2.0	100	16	2.3	0.034	0.105
XG400	4.0	6.8	20.0/3.5	100	16	2.4	0.020	0.063
XG500	5.0	8.5	25.0/3.6	100	16	2.6	0.014	0.044
XG600	6.0	10.2	30.0/5.8	100	16	2.8	0.009	0.033
XG700	7.0	11.9	35.0/8.0	100	16	3.0	0.006	0.021
XG800	8.0	13.6	40.0/9.0	100	16	3.0	0.005	0.018
XG900	9.0	15.3	45.0/12.0	100	16	3.3	0.004	0.015
XG1000	10.0	17.0	50.0/12.5	100	16	3.3	0.003	0.012
XG1100	11.0	18.7	55.0/13.5	100	16	3.7	0.003	0.010
XG1200	12.0	20.4	60.0/16.0	100	16	4.2	0.002	0.009
XG1400	14.0	23.8	70.0/20.0	100	16	4.6	0.002	0.008

I_H =Hold current-maximum current at which the device will not trip at 23°C still air.

I_T =Trip current-minimum current at which the device will always trip at 23°C still air.

T_{trip} =Maximum time to trip(s) at assigned current.

I_{MAX} = Maximum fault current device can withstand without damage at rated voltage (V_{MAX}).

V_{MAX} =Maximum voltage device can withstand without damage at its rated current.

$P_{D Typ}$ =Typical power dissipated from device when in tripped state in 23°C still air environment.

R_{MIN} =Minimum device resistance at 23°C.

$R1_{MAX}$ =Maximum device resistance at 23°C, 1 hour after tripping .

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Product Dimensions (Millimeter)

Part Number	Figure	A	B	C	D	E	F
		Maximum	Maximum	Typical	Minimum	Maximum	Typical
XG250	1	8.9	12.8	5.1	7.6	3.0	1.2
XG300	2	7.1	11.0	5.1	7.6	3.0	1.2
XG400	2	8.9	12.8	5.1	7.6	3.0	1.2
XG500	2	10.4	14.3	5.1	7.6	3.0	1.2
XG600	2	10.4	18.7	5.1	7.6	3.0	1.2
XG700	2	10.7	17.1	5.1	7.6	3.0	1.2
XG800	2	11.2	19.7	5.1	7.6	3.0	1.2
XG900	2	12.7	20.9	5.1	7.6	3.0	1.2
XG1000	2	14.0	21.7	5.1	7.6	3.0	1.2
XG1100	2	16.5	24.1	5.1	7.6	3.0	1.2
XG1200	3	17.5	26.0	5.1	7.6	3.0	1.2
XG1400	3	17.5	28.0	10.2	7.6	3.6	1.4

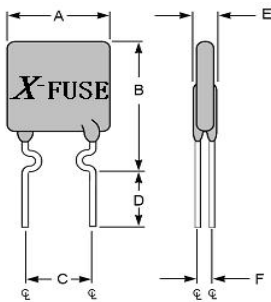


Figure 1
Lead Size: 24AWG
Φ 0.51 mm Diameter

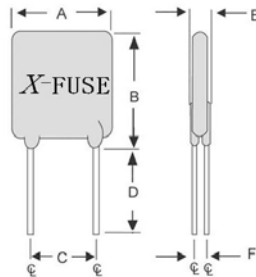


Figure 2
Lead Size: 20AWG
Φ 0.81 mm Diameter

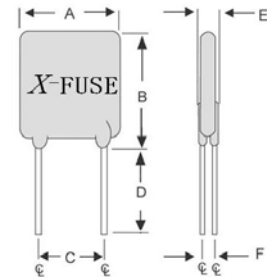


Figure 3
Lead Size: 18AWG
Φ 1.0 mm Diameter

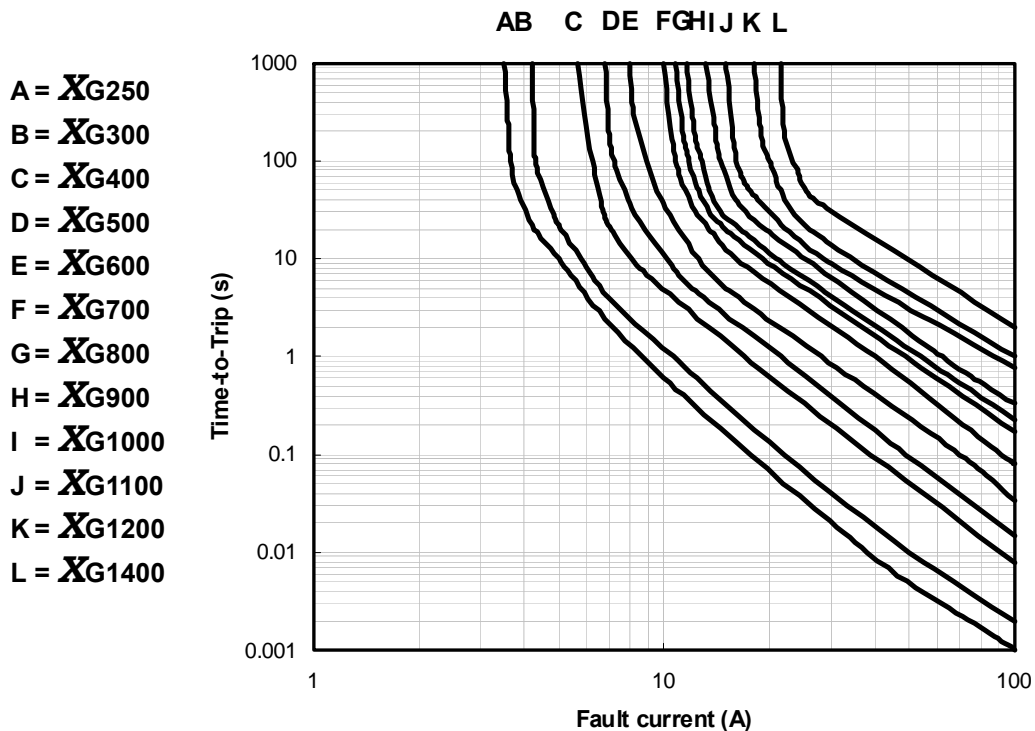
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Thermal Derating Chart- I_H (A)

Part Number	Maximum ambient operating Temperature(°C)									
	-40	-20	0	23	30	40	50	60	70	85
XG250	3.73	3.30	3.00	2.50	2.38	2.20	2.00	1.78	1.53	1.18
XG300	4.47	3.96	3.60	3.00	2.85	2.64	2.40	2.13	1.83	1.41
XG400	5.96	5.28	4.80	4.00	3.80	3.52	3.20	2.84	2.44	1.88
XG500	7.45	6.60	6.00	5.00	4.75	4.40	4.00	3.55	3.05	2.35
XG600	8.94	7.92	7.20	6.00	5.70	5.28	4.80	4.26	3.66	2.82
XG700	10.43	9.24	8.40	7.00	6.65	6.16	5.60	4.97	4.27	3.29
XG800	11.92	10.56	9.60	8.00	7.60	7.04	6.40	5.68	4.88	3.76
XG900	13.41	11.88	10.80	9.00	8.55	7.92	7.20	6.39	5.49	4.23
XG1000	14.90	13.20	12.00	10.00	9.50	8.80	8.00	7.10	6.10	4.70
XG1100	16.39	14.52	13.20	11.00	10.45	9.68	8.80	7.81	6.71	5.17
XG1200	17.88	15.84	14.40	12.00	11.40	10.56	9.60	8.52	7.32	5.64
XG1400	20.86	18.48	16.80	14.00	13.30	12.32	11.20	9.94	8.54	6.58

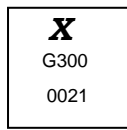
Typical Time-To-Trip at 23°C



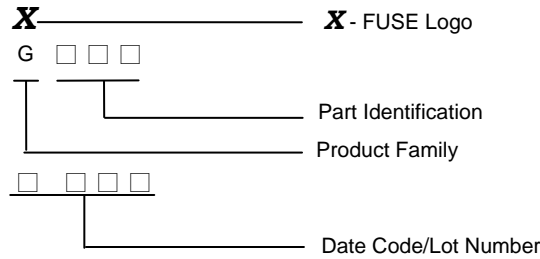
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Marking System



Example



Package Information

Bulk:

- XG250~XG300**-----500pcs per bag
- XG400~XG500**-----300pcs per bag
- XG700~XG900**-----200pcs per bag
- XG1000~XG1400**-----100pcs per bag

Tape & Reel:

- XG250~XG600**-----2500pcs per reel
- XG700**-----1500pcs per reel

Caution : Operation beyond the specified maximum ratings or misuse can result in damage and possible electrical arcing and/or flame.
PPTC device are designed for occasional overcurrent protection. Not for continuously overcurrent circumstance and/or prolonged trip are not anticipated.
Keep PPTC device away from chemical solvent contact. Prolonged contact will damage the device performance.