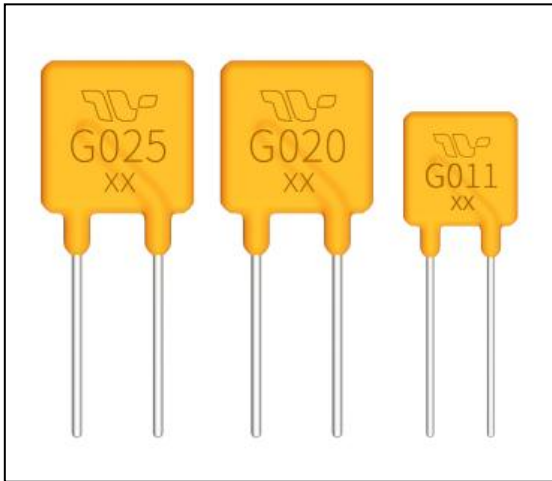


TRG(600V) Series

POLYMER PTC RESETTABLE FUSE



Applications

Almost anywhere there is a low voltage power supply, up to 30V and a load to be protected, including:

- ◆ Personal computer
- ◆ Toys
- ◆ Industrial controls

Features

- ◆ Radial Leaded Devices
- ◆ Cured, flame retardant epoxy polymer insulating material meets UL 94V-0 requirements
- ◆ Bulk Package, or tape and reel available on most models
- ◆ Agency recognition: TUV on approval

Agency Approvals

AGENCY	AGENCY FILE NUMBER
	R 50322003

Regulation/Standard

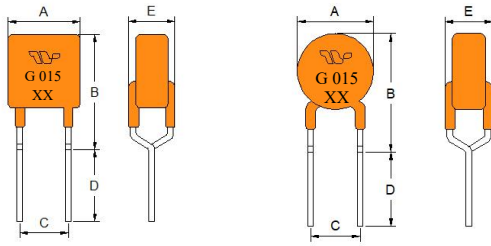


Electrical Characteristics (电气特性)

P/N	保持 电流	跳脱 电流	最大电压	最大 电流	最大冲 击电压	最大动作时间		消耗功率	电阻范围(Ω)		
	I_H (A)	I_T (A)	V_{max} (V)	I_{max} (A)	V_{max} (V)	(A)	(Sec.)	$P_{d\ typ}$ (W)	R_{min}	R_{max}	$R1_{max}$
TRG006	0.06	0.12	250	3.0	600	0.50	2.0	1.0	20.0	35.0	63.0
TRG011	0.11	0.22	250	3.0	600	1.00	4.0	1.0	7.0	14.0	26.0
TRG015	0.15	0.30	250	3.0	600	1.00	5.0	1.0	6.0	12.0	22.0
TRG016	0.16	0.32	250	3.0	600	1.00	7.5	1.7	4.0	10.0	18.0
TRG020	0.20	0.40	250	3.0	600	1.00	15	1.7	2.5	6.5	10.5
TRG025	0.25	0.50	250	3.0	600	1.00	20	1.7	2.0	4.5	7.2

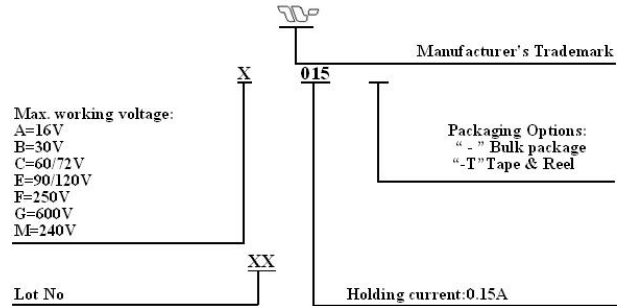
- I_H : Holding Current: maximum current at which the device will not trip in 25°C still air.
- I_T : Tripping Current minimum current at which the device will trip in 25°C still air.
- V_{max} : Maximum voltage device can withstand without damage at rated current.
- I_{max} : Maximum fault current device can withstand without damage at rated voltage.
- T_{trip} : Maximum time to trip(s) at assigned current.
- $P_{d\ typ}$: Rated working power.
- R_{min} : Minimum resistance of device prior to trip at 25°C.
- R_{max} : Maximum resistance of device prior to trip at 25°C.
- $R1_{max}$: Maximum resistance of device measured one hour after tripping at 25°C

Product Dimensions & Marking (Unit: mm) (产品尺寸) :



Style1

Style2

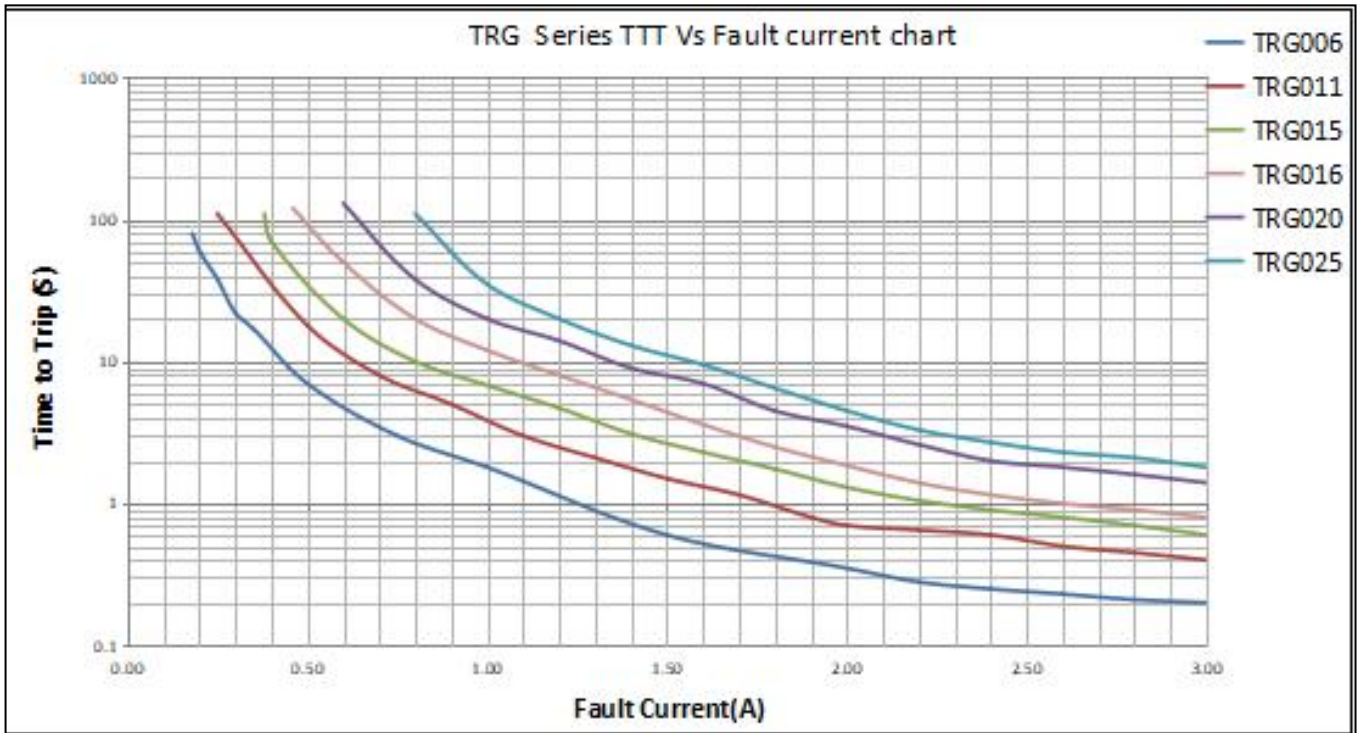


P/N	A	B	C	D	E	Physical Characteristics(物理特性)		
	Max.(最大)	Max.(最大)	Typ.(标准)	Min.(最小)	Max.(最大)	Style(样式)	Lead Φ mm	Material(材料)
TRG006	8.0	12.0	5.1	7.6	4.6	2	0.6	CU
TRG011	9.0	13.0	5.1	7.6	4.6	1	0.6	CU
TRG015	9.0	13.0	5.1	7.6	4.6	1	0.6	CU
TRG016	9.0	13.0	5.1	7.6	4.6	1	0.6	CU
TRG020	13.0	18.0	5.1	7.6	4.6	1	0.6	CU
TRG025	13.0	18.0	5.1	7.6	4.6	1	0.6	CU

Thermal Derating Chart - I_{hold} (Amps) (环境温度与工作电流关系特性曲线) :

P/N	Ambient Operating Temperature(工作环境温度)								
	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
TRG006	0.12	0.10	0.09	0.08	0.06	0.05	0.04	0.04	0.03
TRG011	0.22	0.19	0.17	0.14	0.11	0.10	0.07	0.07	0.06
TRG015	0.24	0.21	0.18	0.15	0.12	0.11	0.08	0.08	0.06
TRG016	0.25	0.22	0.19	0.16	0.13	0.12	0.08	0.09	0.07
TRG020	0.31	0.28	0.24	0.20	0.16	0.15	0.10	0.11	0.09
TRG025	0.39	0.35	0.30	0.25	0.20	0.19	0.13	0.12	0.11

Typical time to trip at 25°C (25°C下的动作保护时间曲线表):

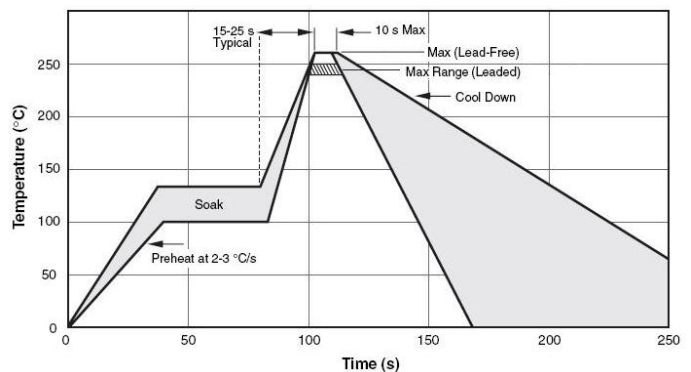


Reliability Requirement (可靠性要求):

Humidity Aging	85°C, 85%R.H., 1000 Hours ± 15% Typical Resistance Change
Passive Aging	85°C, 1000 Hours ± 15% Typical Resistance Change
Thermal Shock	-40°C ~ 85°C, 10 times ± 15% Typical Resistance Change
Solderability	245°C ± 5°C, 5sec >95% coverage
Resistance to Solvents	MIL-STD-202, Method 215 Marking Still legible

Soldering Parameters

Profile Feature	Condition
Average Ramp-Up Rate (T _{sm} to T _p)	4°C/second max.
Preheat	
-Temperature Min (T _{sm})	100°C
-Temperature Max (T _{sm})	125°C
-Time (T _{sm} to T _{sm})	60-180 seconds
Peak Temperature (T _p)	265°C
Max Time at Peak Temperature (t _p)	5 seconds
Ramp-Down Rate	6 °C /second max.
Time 25°C to Peak Temperature	5 minutes max.
Storage Condition	0°C ~35°C, ≦ 70%RH, 2 Years



Environmental Characteristics (环境特性):

- Operating/Storage Temperature -40 °C to +85 °C
- Maximum Device Surface Temperature in Tripped State 125 °C
- Storage Conditions +40 °C Max. 70% RH Max. Packed in original packaging.

Package information (包装信息):

Model	Q'ty/bag
TRG006-TRG016	1000 pcs
TRG020-TRG025	500 pcs

- Tape and Reel Specifications
Devices taped using EIA468-B/IEC286-2 standards.