

# *α Therm*



**PROVIDING A TOTAL SOLUTION FOR  
HIGH STANDARD SAFETY CIRCUIT PROTECTION**

## **Alpha Therm GmbH: Ihr Offizieller Vertriebskanal für SETsafe/SETfuse**

Die Alpha Therm GmbH mit Sitz in Plankstadt, Deutschland, ist stolz darauf, der offizielle Vertriebskanal für SETsafe/SETfuse in Deutschland, Europa und weltweit zu sein. Unsere langjährige Partnerschaft mit SETsafe/SETfuse basiert auf einem erfolgreichen und vertrauensvollen Geschäftsmodell.

Wir repräsentieren SETsafe/SETfuse auf internationalen Messen wie der Electronica, InterSolar, ees und vielen weiteren. Von kleinen Standardsicherungen bis hin zu komplexen, kundenspezifischen Automotive-Projekten – wir haben alles erfolgreich umgesetzt. Mit unserer umfassenden Lagerhaltung in Deutschland gewährleisten wir schnelle und zuverlässige Lieferungen.

Kontaktieren Sie uns! Unser kompetentes Team berät Sie ausführlich und findet die optimale Lösung für Ihre Anforderungen. Vertrauen Sie auf Alpha Therm GmbH und SETsafe/SETfuse – Ihre Partner für innovative Sicherheitslösungen.

### **Kontakt:**

- Tel.: [+49] 6202 / 575688 - 0
- E-Mail: [sales@alpha-therm.de](mailto:sales@alpha-therm.de)

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## **Alpha Therm GmbH: Your Official Distribution Channel for SETsafe/SETfuse**

Alpha Therm GmbH, based in Plankstadt, Germany, is proud to be the official distribution channel for SETsafe/SETfuse in Germany, Europe, and worldwide. Our long-standing partnership with SETsafe/SETfuse is built on a successful and trustworthy business model.

We represent SETsafe/SETfuse at international trade fairs such as Electronica, InterSolar, ees, and many more. From small standard fuses to complex, customized automotive projects, we have successfully handled it all. With our extensive warehousing in Germany, we ensure fast and reliable deliveries.

Contact us today! Our competent team will provide you with detailed advice and find the optimal solution for your requirements. Trust Alpha Therm GmbH and SETsafe/SETfuse – your partners for innovative safety solutions.

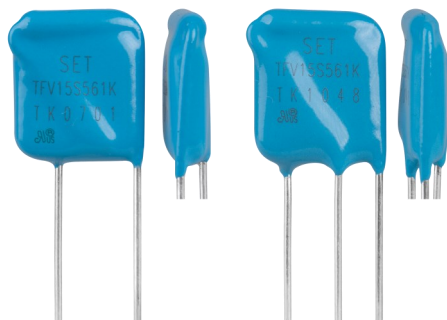
Alpha Therm GmbH  
Gewerbering 7  
68723 Plankstadt  
Germany

Tel: +49 (0) 6202 / 575688 - 0 Fax: -10  
E-Mail: [sales@alpha-therm.de](mailto:sales@alpha-therm.de)  
Web: [www.alpha-therm.com](http://www.alpha-therm.com)

# TFV

Thermal Fuse Varistor

TFV15S Series

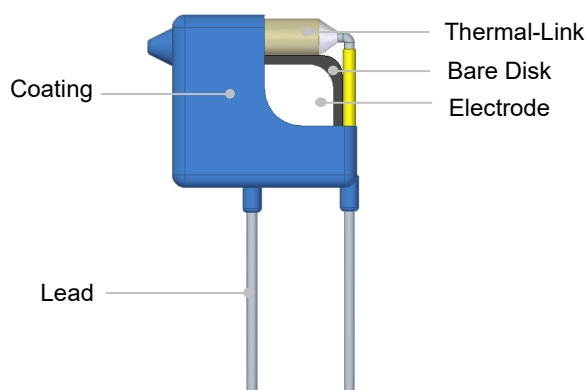


## Description

TFV series consists of Metal Oxide Varistor&Thermal Protection Element. The built-in thermal protection element can quickly respond to the Over-temperature of the varistor to provide instant protection.The integrated struduce of TFV has lower inductance and better ability to suppress surge and overvoltage .

SETsafe | SETfuse thermal protected pressure-sensitive resistor (TFV) product operating voltage coverage of 50 ~ 510 VAC, Nominal Discharge Current :5 kA, Max. Peak Current :10 kA, safety certification includes: UL, cUL, TUV, CQC, and complies with 10oHS and REACH.





## Product Structure



## Features

- Patented Product
- Thermal Protection Varistor
- Thermal Protection Elements Are Built In To Save Space
- Three-lead Version Available For Indication Purpose
- Low Leakage
- Operatin Temp. Range:(-40 to 105)°C
- RoHS & REACH Compliant

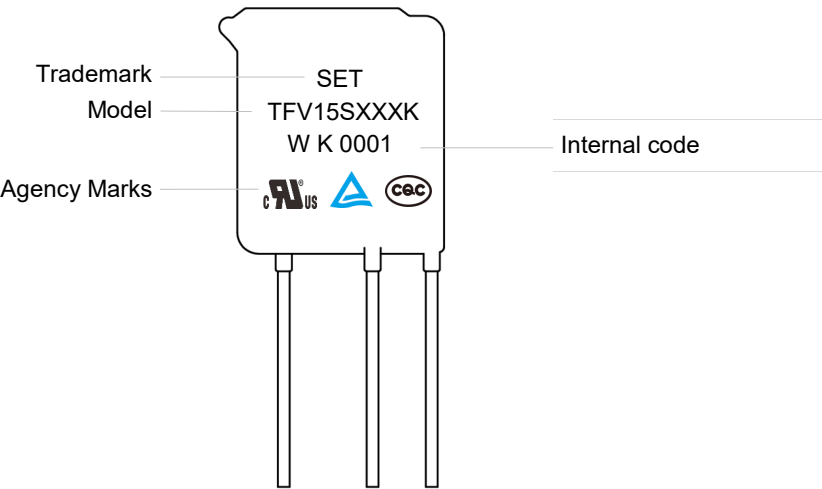
## Agency Approvals

Agency	Standards	File No.
	UL 1449 4 <sup>th</sup> Edition	E322662
	CSA C22.2 NO.269.5-17	E322662
	EN IEC 61051-1:2018 IEC 61051-2:1991+A1 IEC 61051-2-2:1991 Annex G.8.1, G.8.2 of IEC 62368-1:2018	J 50554143
	GB/T 10193-1997 GB/T 10194-1997 GB 4943.1-2022 IEC 61051-2:1991+Amd1:2009	CQC23001391359

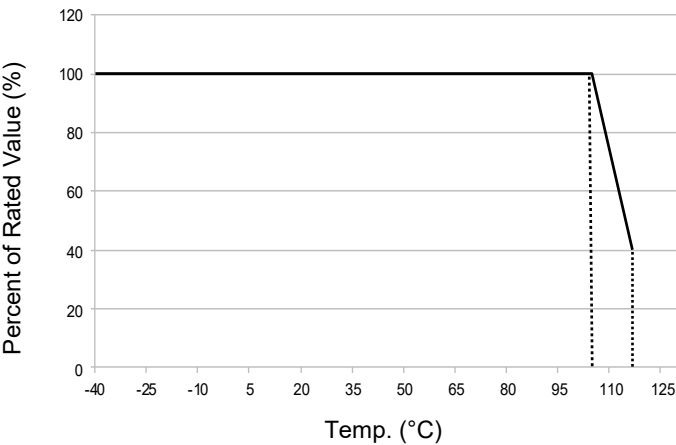
## Applications

- Power Supplies
- Home Electrical Appliances
- Industrial Devices
- Surge Protectors
- Telecom Devices
- AC Panel Protection Modules
- AC Power Meters
- GFCI (Ground Fault Current Interrupter)
- UPS (Uninterruptable Power Supply)
- Inverters

Marking



Temp. Derating Curve



105 °C For Normal Temp. Series

Note:

When ambient Temp. exceeds 105 °C, the peak surge current and energy rating should be reduced as shown in left curve.

General Technical Data

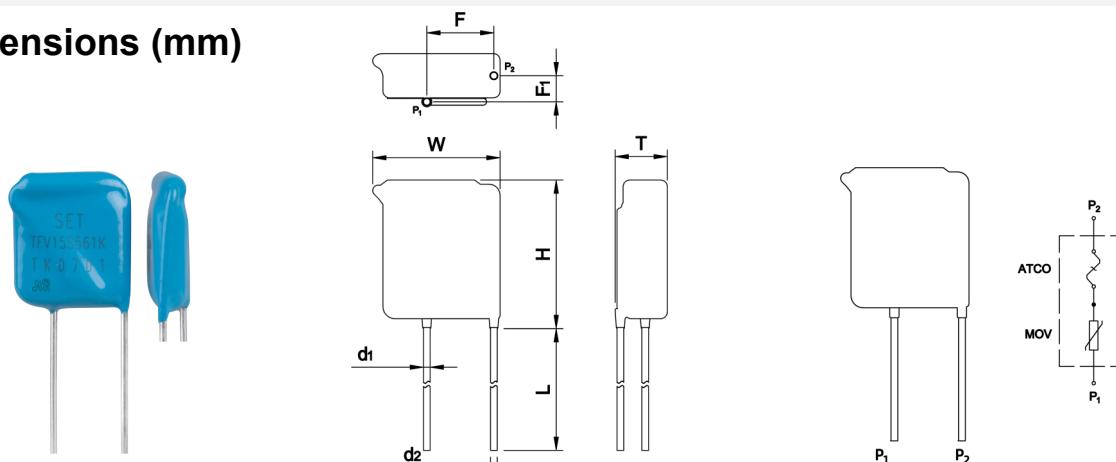
Item	Value	Unit
Operating Temperature	-40 to +105	°C
Storage Temperature	-40 to +125	°C
Voltage Proof	≥2500	V <sub>ac</sub>
Insulation Resistance	≥100	MΩ

# TFV

Thermal Fuse Varistor

TFV15S Series

## Dimensions (mm)



Model	L (Min.)	W (Max.)	H (Max.)	T (Max.)	d <sub>1</sub>	d <sub>2</sub>	F	F <sub>1</sub>
TFV15S820K	15	21	26	4.8	1.00±0.05	1.00±0.05	10.0±1.0	0.4 ~ 2.4
TFV15S101K	15	21	26	5.0	1.00±0.05	1.00±0.05	10.0±1.0	0.5 ~ 2.5
TFV15S121K	15	21	26	5.2	1.00±0.05	1.00±0.05	10.0±1.0	0.6 ~ 2.6
TFV15S151K	15	21	26	5.5	1.00±0.05	1.00±0.05	10.0±1.0	0.8 ~ 2.8
TFV15S181K	15	21	26	4.9	1.00±0.05	1.00±0.05	10.0±1.0	0.5 ~ 2.5
TFV15S201K	15	21	26	5.0	1.00±0.05	1.00±0.05	10.0±1.0	0.6 ~ 2.6
TFV15S221K	15	21	26	5.1	1.00±0.05	1.00±0.05	10.0±1.0	0.6 ~ 2.6
TFV15S241K	15	21	26	5.2	1.00±0.05	1.00±0.05	10.0±1.0	0.7 ~ 2.7
TFV15S271K	15	21	26	5.4	1.00±0.05	1.00±0.05	10.0±1.0	0.8 ~ 2.8
TFV15S301K	15	21	26	5.6	1.00±0.05	1.00±0.05	10.0±1.0	0.9 ~ 2.9
TFV15S331K	15	21	26	5.8	1.00±0.05	1.00±0.05	10.0±1.0	0.9 ~ 2.9
TFV15S361K	15	21	26	6.0	1.00±0.05	1.00±0.05	10.0±1.0	1.0 ~ 3.0
TFV15S391K	15	21	26	6.1	1.00±0.05	1.00±0.05	10.0±1.0	1.1 ~ 3.1
TFV15S431K	15	21	26	6.4	1.00±0.05	1.00±0.05	10.0±1.0	1.2 ~ 3.2
TFV15S471K	15	21	26	6.6	1.00±0.05	1.00±0.05	10.0±1.0	1.3 ~ 3.3
TFV15S511K	15	21	26	6.8	1.00±0.05	1.00±0.05	10.0±1.0	1.5 ~ 3.5
TFV15S561K	15	21	26	7.1	1.00±0.05	1.00±0.05	10.0±1.0	1.6 ~ 3.6
TFV15S621K	15	21	26	7.5	1.00±0.05	1.00±0.05	10.0±1.0	1.8 ~ 3.8
TFV15S681K	15	21	26	7.8	1.00±0.05	1.00±0.05	10.0±1.0	1.9 ~ 3.9
TFV15S751K	15	21	26	8.3	1.00±0.05	1.00±0.05	10.0±1.0	2.1 ~ 4.1
TFV15S821K	15	21	26	8.7	1.00±0.05	1.00±0.05	10.0±1.0	2.3 ~ 4.3

Note:

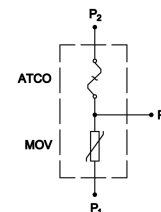
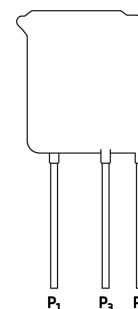
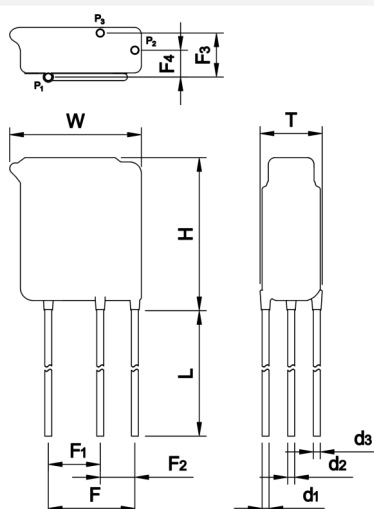
The above data is for reference only.

# TFV

Thermal Fuse Varistor

TFV15S Series

## Dimensions (mm)



Model	L (Min.)	W (Max.)	H (Max.)	T (Max.)	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	F	F <sub>1</sub>	F <sub>2</sub>	F <sub>3</sub>	F <sub>4</sub>
TFV15S820	15	21	26	4.8	1.00±0.05	1.05±0.05	1.00±0.05	12.5±1.0	7.5±1.0	5.0±1.0	1.3 ~ 2.8	0.4 ~ 2.4
TFV15S101	15	21	26	5.0	1.00±0.05	1.05±0.05	1.00±0.05	12.5±1.0	7.5±1.0	5.0±1.0	1.4 ~ 3.0	0.5 ~ 2.5
TFV15S121	15	21	26	5.2	1.00±0.05	1.05±0.05	1.00±0.05	12.5±1.0	7.5±1.0	5.0±1.0	1.5 ~ 3.2	0.6 ~ 2.6
TFV15S151	15	21	26	5.5	1.00±0.05	1.05±0.05	1.00±0.05	12.5±1.0	7.5±1.0	5.0±1.0	1.6 ~ 3.5	0.8 ~ 2.8
TFV15S181	15	21	26	4.9	1.00±0.05	1.05±0.05	1.00±0.05	12.5±1.0	7.5±1.0	5.0±1.0	1.4 ~ 3.0	0.5 ~ 2.5
TFV15S201	15	21	26	5.0	1.00±0.05	1.05±0.05	1.00±0.05	12.5±1.0	7.5±1.0	5.0±1.0	1.5 ~ 3.1	0.6 ~ 2.6
TFV15S221	15	21	26	5.1	1.00±0.05	1.05±0.05	1.00±0.05	12.5±1.0	7.5±1.0	5.0±1.0	1.6 ~ 3.3	0.6 ~ 2.6
TFV15S241	15	21	26	5.2	1.00±0.05	1.05±0.05	1.00±0.05	12.5±1.0	7.5±1.0	5.0±1.0	1.7 ~ 3.4	0.7 ~ 2.7
TFV15S271	15	21	26	5.4	1.00±0.05	1.05±0.05	1.00±0.05	12.5±1.0	7.5±1.0	5.0±1.0	1.8 ~ 3.5	0.8 ~ 2.8
TFV15S301	15	21	26	5.6	1.00±0.05	1.05±0.05	1.00±0.05	12.5±1.0	7.5±1.0	5.0±1.0	1.9 ~ 3.7	0.9 ~ 2.9
TFV15S331	15	21	26	5.8	1.00±0.05	1.05±0.05	1.00±0.05	12.5±1.0	7.5±1.0	5.0±1.0	2.0 ~ 3.9	0.9 ~ 2.9
TFV15S361	15	21	26	6.0	1.00±0.05	1.05±0.05	1.00±0.05	12.5±1.0	7.5±1.0	5.0±1.0	2.1 ~ 4.1	1.0 ~ 3.0
TFV15S391	15	21	26	6.1	1.00±0.05	1.05±0.05	1.00±0.05	12.5±1.0	7.5±1.0	5.0±1.0	2.2 ~ 4.2	1.1 ~ 3.1
TFV15S431	15	21	26	6.4	1.00±0.05	1.05±0.05	1.00±0.05	12.5±1.0	7.5±1.0	5.0±1.0	2.5 ~ 4.5	1.2 ~ 3.2
TFV15S471	15	21	26	6.6	1.00±0.05	1.05±0.05	1.00±0.05	12.5±1.0	7.5±1.0	5.0±1.0	2.7 ~ 4.7	1.3 ~ 3.3
TFV15S511	15	21	26	6.8	1.00±0.05	1.05±0.05	1.00±0.05	12.5±1.0	7.5±1.0	5.0±1.0	2.9 ~ 4.9	1.5 ~ 3.5
TFV15S561	15	21	26	7.1	1.00±0.05	1.05±0.05	1.00±0.05	12.5±1.0	7.5±1.0	5.0±1.0	3.2 ~ 5.2	1.6 ~ 3.6
TFV15S621	15	21	26	7.5	1.00±0.05	1.05±0.05	1.00±0.05	12.5±1.0	7.5±1.0	5.0±1.0	3.5 ~ 5.5	1.8 ~ 3.8
TFV15S681	15	21	26	7.8	1.00±0.05	1.05±0.05	1.00±0.05	12.5±1.0	7.5±1.0	5.0±1.0	3.9 ~ 5.9	1.9 ~ 3.9
TFV15S751	15	21	26	8.3	1.00±0.05	1.05±0.05	1.00±0.05	12.5±1.0	7.5±1.0	5.0±1.0	4.3 ~ 6.3	2.1 ~ 4.1
TFV15S821	15	21	26	8.7	1.00±0.05	1.05±0.05	1.00±0.05	12.5±1.0	7.5±1.0	5.0±1.0	4.7 ~ 6.7	2.3 ~ 4.3

Note:





The above data is for reference only.

# TFV

Thermal Fuse Varistor

TFV15S Series

## Specification

Model	Max. Continuous Operating Voltage		Varistor Voltage @1 mA DC		Clamping Voltage (Max.)		Max. Discharge Current (8/20 $\mu$ s)		Max. Energy (10/1000 $\mu$ s)	Typical Capacitance (For reference only ) @1 kHz	Agency Approvals			
	VAC	VDC	Min.	Max.	V <sub>C</sub>	I <sub>P</sub>	I <sub>n</sub>	I <sub>max</sub>	(J)	(pF)				
	(V)	(V)	(V)	(V)	(V)	(A)	(kA)	(kA)			UL	cUL	TUV	CQC
TFV15S820K	50	65	74	90	135	75	5	10	43	4000	●	●	●	●
TFV15S101K	60	85	90	110	165	75	5	10	53	3200	●	●	●	●
TFV15S121K	75	100	108	132	200	75	5	10	64	2700	●	●	●	●
TFV15S151K	95	125	135	165	250	75	5	10	85	2200	●	●	●	●
TFV15S181K	115	150	162	198	300	75	5	10	96	1800	●	●	●	●
TFV15S201K	130	170	180	220	340	75	5	10	102	1600	●	●	●	●
TFV15S221K	140	180	198	242	360	75	5	10	125	1450	●	●	●	●
TFV15S241K	150	200	216	264	395	75	5	10	134	1350	●	●	●	●
TFV15S271K	175	225	243	297	455	75	5	10	158	1200	●	●	●	●
TFV15S301K	190	250	270	330	500	75	5	10	173	1050	●	●	●	●
TFV15S331K	210	275	297	363	550	75	5	10	185	1000	●	●	●	●
TFV15S361K	230	300	324	396	595	75	5	10	208	900	●	●	●	●
TFV15S391K	250	320	351	429	650	75	5	10	224	800	●	●	●	●
TFV15S431K	275	350	387	473	710	75	5	10	248	750	●	●	●	●
TFV15S471K	300	385	423	517	775	75	5	10	280	680	●	●	●	●
TFV15S511K	320	415	459	561	845	75	5	10	300	630	●	●	●	●
TFV15S561K	350	460	504	616	925	75	5	10	310	580	●	●	●	●
TFV15S621K	385	505	558	682	1025	75	5	10	310	530	●	●	●	●
TFV15S681K	420	560	612	748	1120	75	5	10	320	500	●	●	●	●
TFV15S751K	460	615	675	825	1240	75	5	10	335	430	●	●	●	●
TFV15S821K	510	670	738	902	1355	75	5	10	350	400	●	●	●	●

●: Approved

○: Unauthorized

● RoHS & REACH Compliant

# TFV

Thermal Fuse Varistor

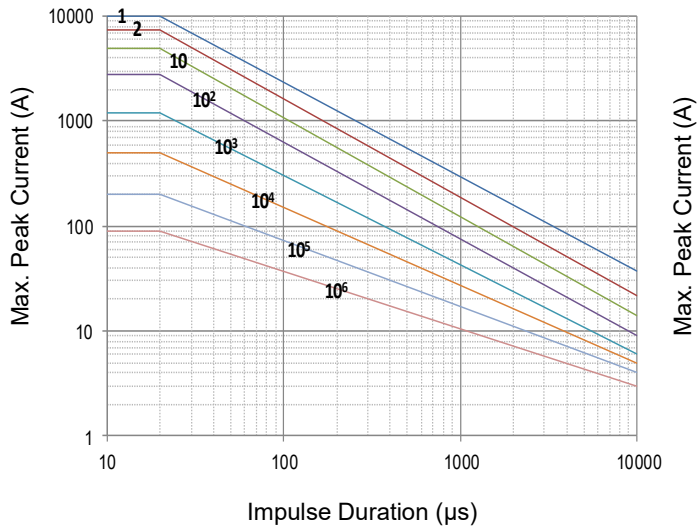
TFV15S Series

## Specification

Model	Limited Current	Rated Function Temp.	Fuse Temp.	Holding Temp.	Rated Voltage	
		$T_f$	(°C)	$T_h$	AC	DC
		(°C)		(°C)	(V)	(V)
TFV15S820K	5	145	140±2	118	250	50
TFV15S101K	5	145	140±2	118	250	50
TFV15S118K	5	145	140±2	118	250	50
TFV15S151K	5	145	140±2	118	250	50
TFV15S181K	5	145	140±2	118	250	50
TFV15S201K	5	145	140±2	118	250	50
TFV15S221K	5	145	140±2	118	250	50
TFV15S241K	5	145	140±2	118	250	50
TFV15S271K	5	145	140±2	118	250	50
TFV15S301K	5	145	140±2	118	250	50
TFV15S331K	5	145	140±2	118	250	50
TFV15S361K	5	145	140±2	118	250	50
TFV15S391K	5	145	140±2	118	250	50
TFV15S431K	5	145	140±2	118	250	50
TFV15S471K	5	145	140±2	118	250	50
TFV15S511K	5	145	140±2	118	250	50
TFV15S561K	5	145	140±2	118	250	50
TFV15S621K	5	145	140±2	118	250	50
TFV15S681K	5	145	140±2	118	250	50
TFV15S751K	5	145	140±2	118	250	50
TFV15S821K	5	145	140±2	118	250	50

## Performance Curve (For reference only)

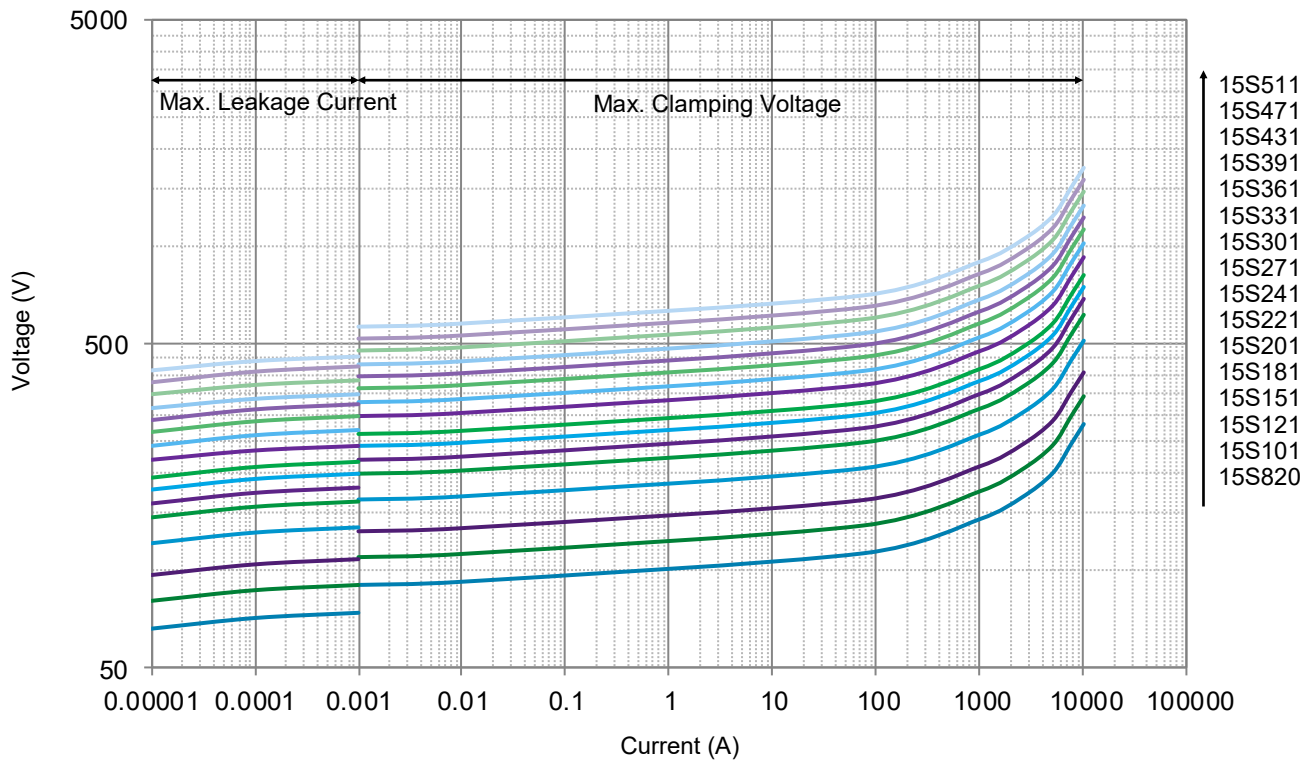
- Max. Peak Current Derating Curves



TFV15S820K to TFV15S821K

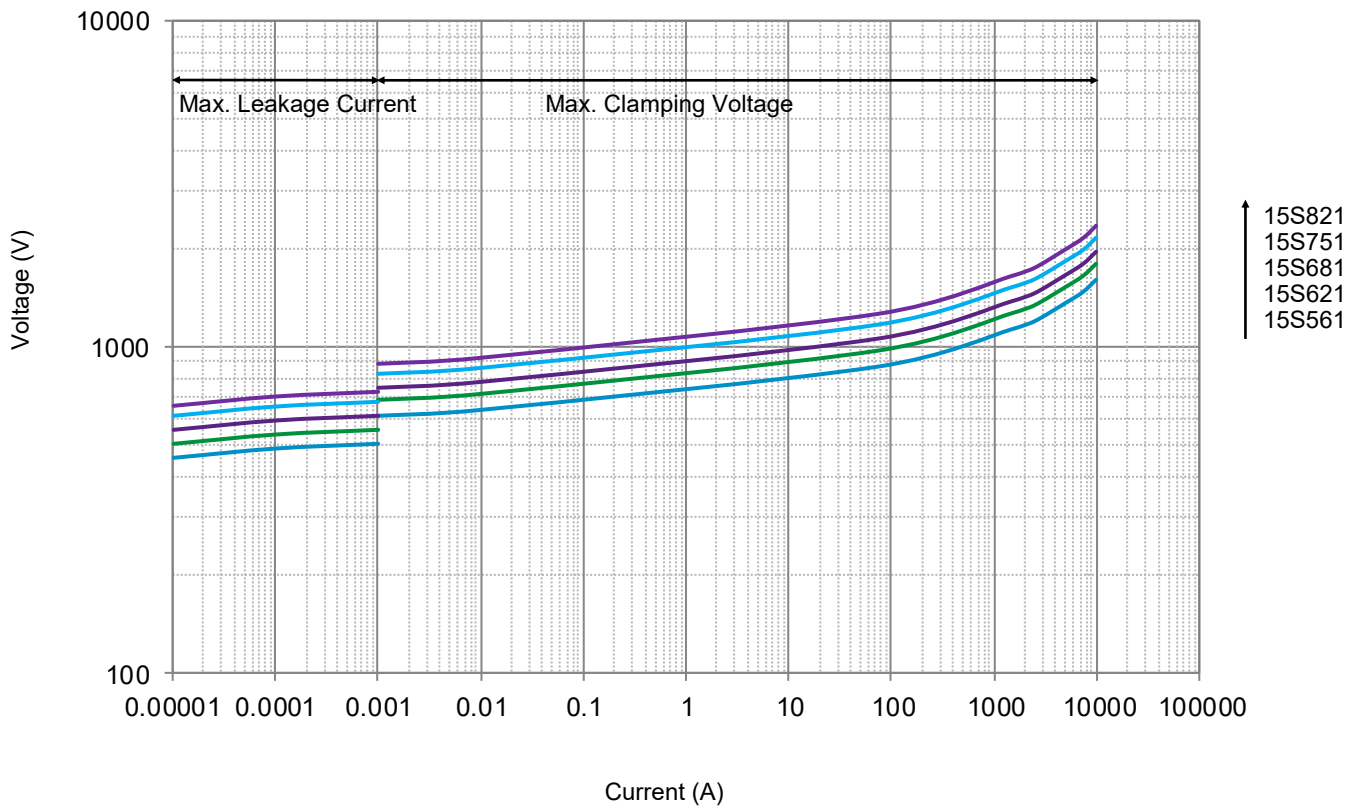
Note: 1, 2, 10, 10<sup>2</sup>, 10<sup>3</sup>, 10<sup>4</sup>, 10<sup>5</sup>, 10<sup>6</sup> Stand for Repetitions.

- Voltage-Current Characteristic Curves





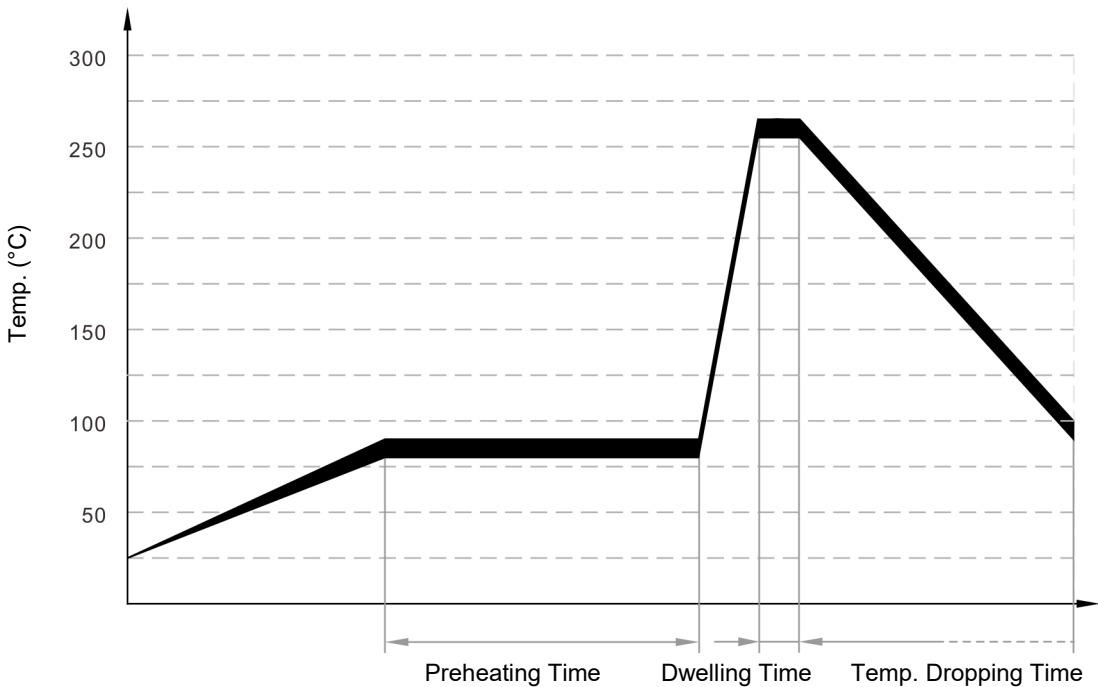
Voltage-Current Characteristic Curves



# Soldering Parameters

## Wave Soldering Parameters

The wave soldering parameters are for reference only. When MOV is for practice use, some related validation is recommended.



Wave Soldering Curve

Item	Temp. (°C)	Time (s)
Preheating	80 to 90	60 to 150
Dwelling	260 ± 5	2 to 4
Cooling Time	≤ 80	10

## Recommended Hand-Soldering Parameters

Item	Condition
Temp. of Solder Head	350 °C (max.)
Soldering Time	2 seconds (max.)
Distance between Soldering Point and Coating	2 mm (min.)

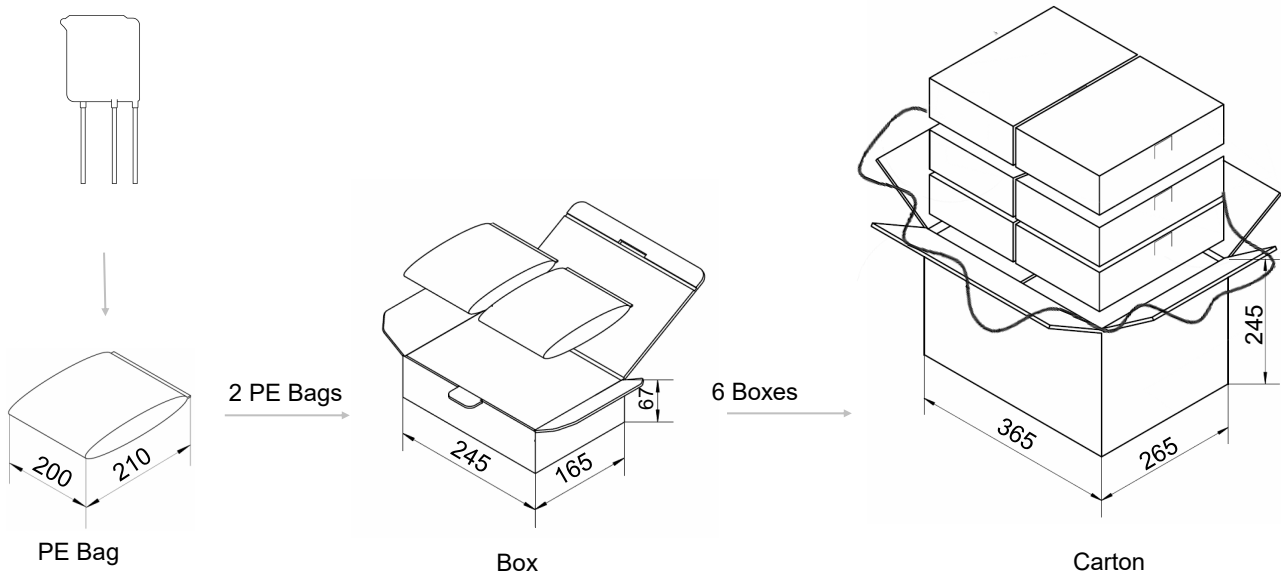
Packaging Information

- Bulk Packaging
- Bulk Packaging Dimensions & Quantity

Series	Nominal Varistor Voltage ( $V_N$ )	PE Bag	Box	Carton	Gross Weight / Carton
	(V)	(PCS)	(PCS)	(PCS)	(kg)±10%
TFV15S Series	820 ~ 361	200	400	2400	5 ~ 10
	391 ~ 561	150	300	1800	7 ~ 11
	621 ~ 821	100	200	1200	6 ~ 10

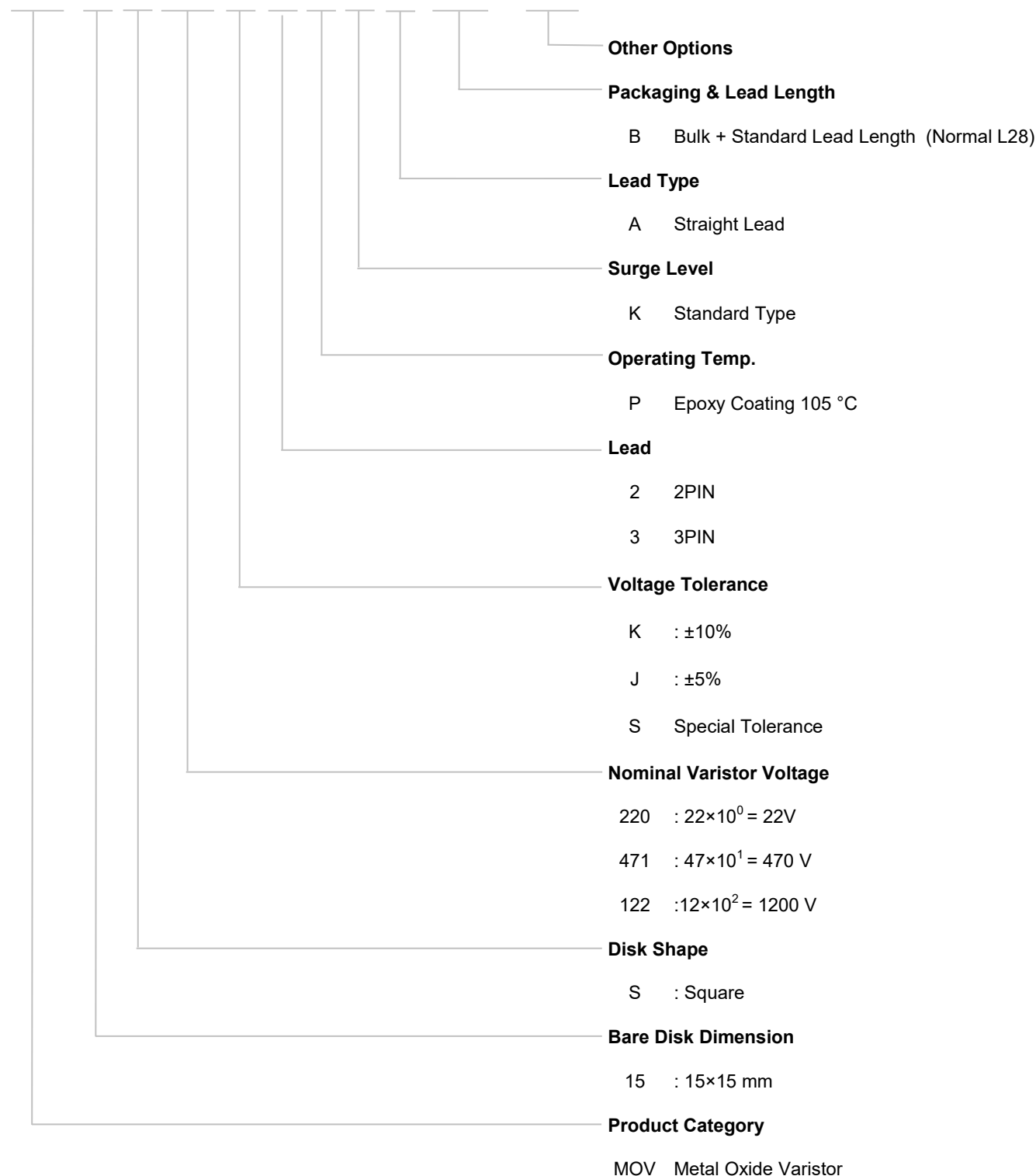
Note:  
Other lead length packaging information, please contact SETsafe | SETfuse.

All Dimensions in mm



## Part Numbering System

TFV 15 S 471 K 3 P K A BUL - 001



## Glossary

Item	Description
$V_N$	<b>Nominal Varistor Voltage</b> Voltage, at specified D.C. current used as a reference point in the component characteristics. — (GB 18802.331) — (IEC 61051-1)
$I_L$	<b>Leakage Current</b> Measuring at 75% of varistor voltage. — (GB/T 10193) — (IEC 61051-1)
UCT	<b>Upper Category Temp.</b> Max. ambient temp. for which a varistor has been designed to operate continuously. — (GB/T 10193) — (IEC 61051-1)
LCT	<b>Lower Category Temp.</b> Minimum ambient temp. at which a varistor has been designed to operate continuously. — (GB/T 10193) — (IEC 61051-1)
Max. Peak Current	<b>Max. Peak Current</b> Max. current per pulse, which may be passed by a varistor at an ambient temp. of 25 °C, for a given number of pulses. — (GB/T 10193) — (IEC 61051-1)
$V_C$	<b>Clamping Voltage</b> Peak voltage developed across the varistor terminations under standard atmospheric conditions, when passing an 8/20 $\mu$ s class current pulse. — (GB 18802.331) — (IEC 61051-1)
Voltage Proof	<b>Voltage Proof</b> Max. peak voltage, which may be applied under continuous operating conditions between the varistor terminations and any conducting mounting surface (Applicable only to insulated varistors). — (GB/T 10193) — (IEC 61051-1)
$C_V$	<b>Capacitance</b> Capacitance across the MOV measured at a specified frequency and voltage. — (GB 18802.331) — (IEC 61051-1)
$V_{ac}$	<b>Max. Continuous a.c. Voltage</b> Max. a.c. r.m.s. voltage of a substantially sinusoidal waveform (less than 5% total harmonic distortion) which can be applied to the component under continuous operating conditions at 25 °C. — (GB/T 10193) — (IEC 61051-1)
$V_{dc}$	<b>Max. Continuous d.c. Voltage</b> Max. d.c. voltage (with less than 5% ripple) which can be applied to the component under continuous operating conditions at an ambient temp. of 25 °C. — (GB/T 10193) — (IEC 61051-1)
$I_n$	<b>Nominal Discharge Current</b> Crest value of the current through the SPD having a current waveshape of 8/20 $\mu$ s. — (GB 18802.1) — (IEC 61643-11)

### Glossary

Item	Description
$I_{\max}$	<b>Max. Discharge Current</b> Crest value of a current through the SPD having an 8/20 $\mu$ s waveshape and magnitude according to the manufacturers specification. $I_{\max}$ is equal to or greater than $I_n$ . <div> — (GB 18802.1)  — (IEC 61643-11) </div>
$T_f$	<b>Rated function Temp.</b> The Temp. of the TCO which causes it to change its state of conductivity with a detection current up to 10 mA as the only load. <div> — (GB 9816)  — (IEC 60691) </div>
$T_h$	<b>Holding Temp.</b> The Max. temp. of product body surface at which a TCO will not change its state of conductivity when conducting rated current for 168 h. <div> — (GB 9816)  — (IEC 60691) </div>
$U_r$	<b>Rated Voltage</b> The voltage used to classify a TCO, which is the maximum voltage that TCO allows to carry and is able to cut off the circuit safely. <div> — (GB 9816) </div>

### Attention

#### Usage

1. Please do not apply severe vibration, shock or pressure to avoid surface resin or element cracking.
2. Please fix lead wires when bending or cutting. The distance between the bending point and the sealing of MOV shall be greater than 2mm.
3. In order to reduce the surface temperature rise, adding heat insulated shroud is recommended before wave soldering.
4. This curve is for reference only. Please confirm before production to avoid damaging the integrated Thermal Fuse.

#### Replacement

1. If varistor is visually damaged, please replace it.
2. Varistor is a non-repairable product. For safety sake, please use equivalent varistor for replacement.

#### Storage

1. Storage Temp. Range: (-40 to +125) °C
2. Relative Humidity : ≤75% RH
3. Do not store the MOV at the high temp., high humidity or corrosive gas environment, to avoid influencing the solder-ability of the lead wires, the product shall be used up within 1 year after receiving the goods.

#### Environmental Conditions

1. Varistor should not be exposed to the open air, nor direct sunshine.
2. Varistor should avoid rain, water vapor or other condition of high temp. and high humidity.
3. Varistor should avoid sand dust, salt spray, or other harmful gases.

#### Max. Typical Capacitance of Varistor

The typical capacitance of varistor is listed in the specifications. Designers may refer to it when designing MOV in high frequency circuit.

### Installation

#### Mechanical Stress

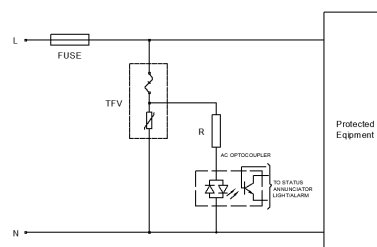
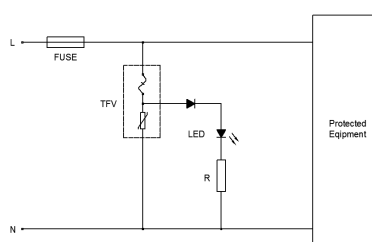
Do not knock MOV when installing, to avoid mechanical damage.

Please do not apply severe vibration, shock or pressure to MOV, to avoid surface resin or element cracking.

### Application Examples

The application examples below show how the indicator lead on the TFV can be used to indicate that the thermal element has been opened. This signifies that the circuit is no longer protected from transients by the MOV.

1. In this case, the LED is normally on, and is off when the thermal element opens.
2. This circuit utilizes an optocoupler to provide galvanic isolations between the TFV varistor and the indicating or alarm circuitry.



Thermal Fuse Varistor (TFV) Feature & Model List Overview

Nominal Operating Voltage $U_n$ (V)					Page		Model
					510	670	
380V - 240V 100V - 220V	500V	TFV8S821K	TFV10S821K	TFV15S821K	460	615	Maximum Continuous Operating Voltage $U_c$ (V)
		TFV8S751K	TFV10S751K	TFV15S751K	420	560	
		TFV8S681K	TFV10S681K	TFV15S681K	385	505	
		TFV8S621K	TFV10S621K	TFV15S621K	350	460	
		TFV8S561K	TFV10S561K	TFV15S561K	320	415	
	250V	TFV8S511K	TFV10S511K	TFV15S511K	300	385	
		TFV8S471K	TFV10S471K	TFV15S471K	275	350	
		TFV8S431K	TFV10S431K	TFV15S431K	250	320	
		TFV8S391K	TFV10S391K	TFV15S391K	230	300	
		TFV8S361K	TFV10S361K	TFV15S361K	210	275	
		TFV8S331K	TFV10S331K	TFV15S331K	190	250	
		TFV8S301K	TFV10S301K	TFV15S301K	175	225	
		TFV8S271K	TFV10S271K	TFV15S271K	150	200	
		TFV8S241K	TFV10S241K	TFV15S241K	140	180	
		TFV8S221K	TFV10S221K	TFV15S221K	130	170	
100V - 120V 125V 100V	125V	TFV8S201K	TFV10S201K	TFV15S201K	115	150	
		TFV8S181K	TFV10S181K	TFV15S181K	95	125	
		TFV8S151K	TFV10S151K	TFV15S151K	75	100	
		TFV8S121K	TFV10S121K	TFV15S121K	60	85	
		TFV8S101K	TFV10S101K	TFV15S101K	50	65	
		TFV8S820K	TFV10S820K	TFV15S820K			
AC	DC	3.5	5	10	AC	DC	
Maximum Peak Current (8/20 $\mu$ s) (kA)							