

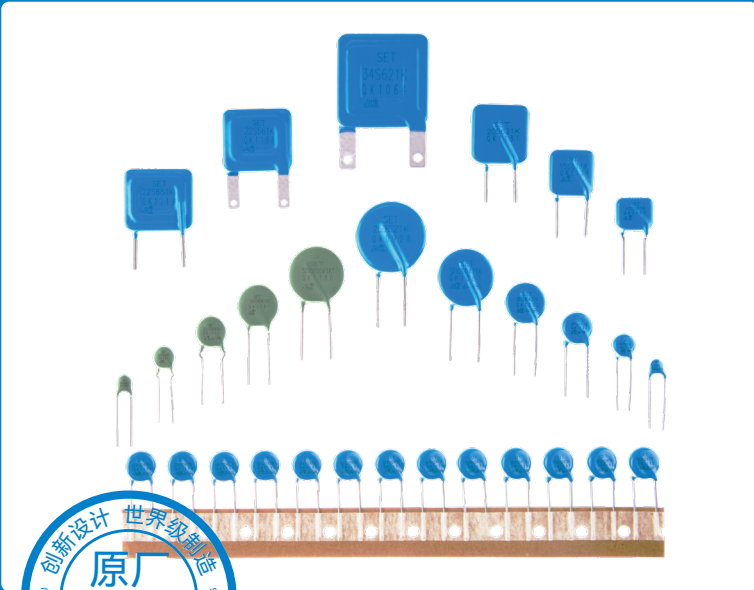
MOV

压敏电阻

Metal Oxide Varistor (MOV)

- 高通流密度: 7000 A/cm²
- 限制电压比可低至1.9
- 符合IEC 62368.1-2018 附录G.8.1
- 工作温度可至135 °C
- 通过UL、TUV、CQC安规认证

High Surge Current Density: 7000 A/cm²
Voltage Clamping Ratio Can Be Low to 1.9
Comply with G.8.1 of IEC 62368.1-2018
Operation Temp. Can Be High to 135 °C,
Comply with UL, TUV, CQC



制造电路控制及安全保护元器件 提供电路安全解决方案
Providing a Total Solution for High Standard Safety Circuit Protection

SET safe | *SET fuse*

赛尔特

WHAT

CAN DO FOR YOU

赛尔特设计、制造、销售业界领先的**电路控制及安全保护元器件**、提供**电路安全解决方案**。

2000年成立于中国厦门。产品销往40多个国家和地区，与世界500强的部分企业有深远的合作，首创、独创多个产品；取得CCC、UL、cUL、VDE、TUV、PSE、KC等认证，符合RoHS、REACH，获得IATF16949、ISO9001、ISO14001、ISO45001、GB/T29490管理体系认证，参与多项电路保护元器件的国家、国际标准制定、修订。

赛尔特(SETsafe | SETfuse)产品的主要应用市场：通信、防雷器、电源、新能源、照明、家电、移动设备、医疗。

MISSION

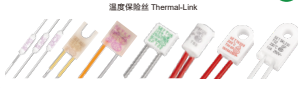
PROVIDING A TOTAL SOLUTION FOR HIGH STANDARD SAFETY CIRCUIT PROTECTION.

SETsafe | SETfuse was established in 2000 in Xiamen, China. We have a presence in more than 40 countries and regions recognising our products. Some of the world's 500 fortune companies are our valuable customers. We have pioneered, innovated & developed several products exclusively. Products are compliance with CCC, UL, cUL, VDE, TUV, PSE, KC, IATF16949, ISO9001, ISO14001, ISO45001, GB/T29490 certificates. We are in one of the core participating teams for revising and setting several national & international standards in the field of Circuit Protection.


SETsafe | SETfuse Key Markets: Telecom, Surge Protector, Power, New Energy, Lighting, Home Appliances, Mobile Devices, Medical.

过温保护 Over Temperature Protection


ATCO
温度保险丝 Thermal-Link 1



DC-ATCO
直流温度保险丝 Thermal-Link 2



OTCO
温度保险丝 Thermal-Link 3

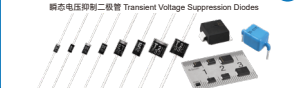


TMS
热保护器 Thermal Protector 4




过电压保护 Over Voltage Protection


TVS Diodes
瞬态电压抑制二极管 Transient Voltage Suppression Diodes 1




GDT
气体放电管 Gas Discharge Tube 2




MOV
压敏电阻 Metal Oxide Varistor 3



TFMOV
热保护型压敏电阻 Thermal Fuse & MOV 4



TFMOV
热保护型压敏电阻 Thermally Protected Varistors 5




过电压保护 Over Voltage Protection

SPD-M
电涌保护模块 Surge Protective Device Module 6




SPD
低压电源系统 Low-voltage Power Systems 7



SPD
光伏供电系统 PV System 8



SPD
室外照明系统 Outdoor Lighting 9



SPD
信号通信系统 Signaling Networks 10



过电流保护 Over Current Protection

Mini Fuses
小型熔断器 Miniature Fuses 1



TRXF
热保护型熔断电阻器 Thermal-Link & Fusing Resistor 2



TPR
热保护型熔断电阻器 Thermally Protected Resistor 3



NTC
抑制浪涌电流NTC热敏电阻器 Inrush Current Limiting NTC Thermistor 4



LV Fuses
低压熔断器 Low Voltage Fuses 5



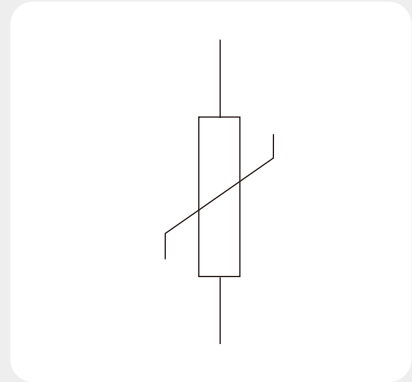
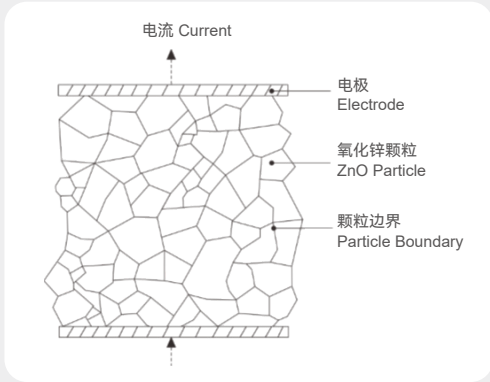
主动保护 Active Protection

iTCO
受控熔断器 Idea Thermal-Link 1

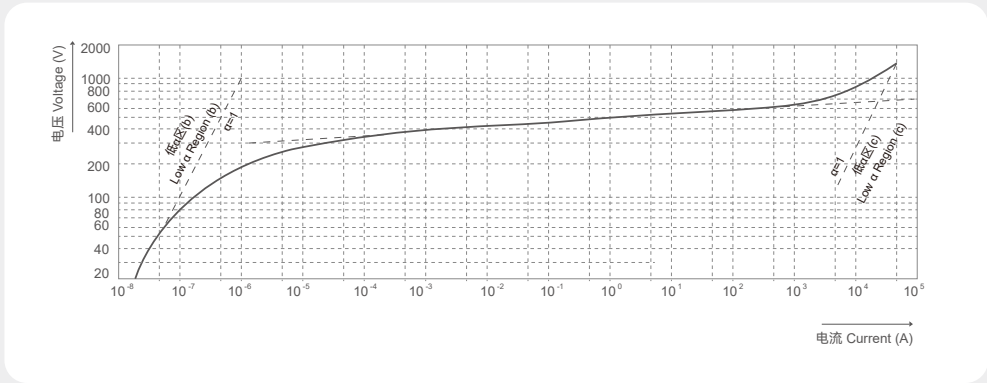


结构 Structure

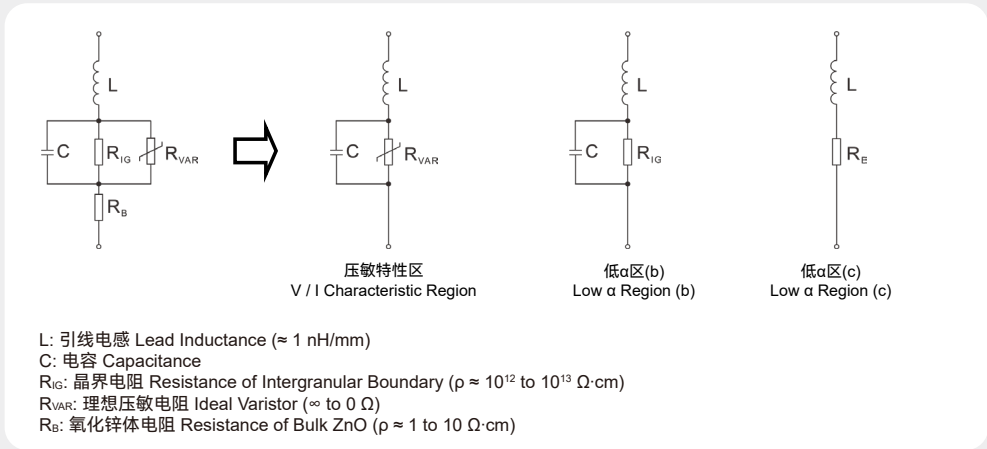
符号 Symbol



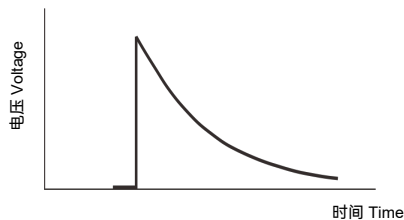
伏安特性曲线图 V / I Characteristic Curve



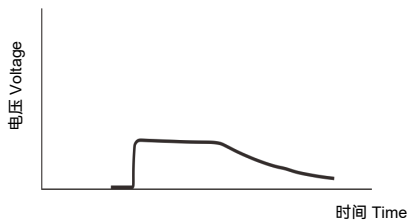
等效电路 Equivalent Circuits



工作原理 Operation Principle

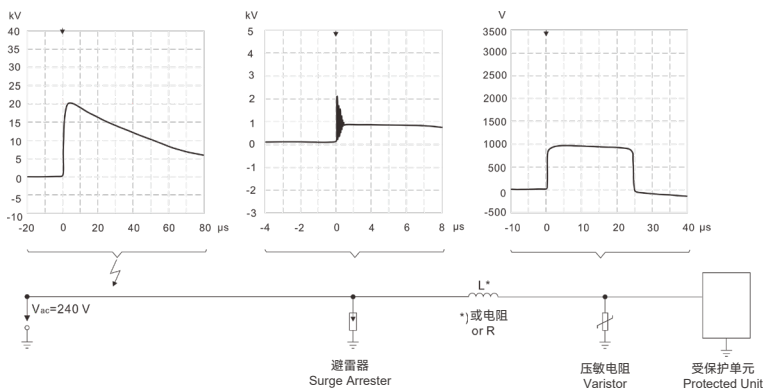


雷电过电压 Lightning Over-voltage

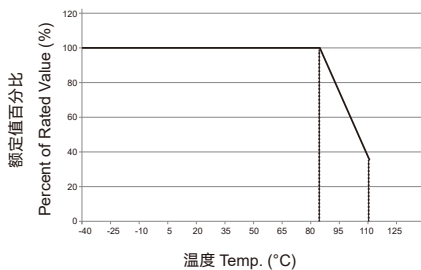


通过压敏电阻的箝制电压 Clamping Voltage by Varistor

逐级保护 Stepwise Protection



温度降额曲线 Temp. Derating Curves

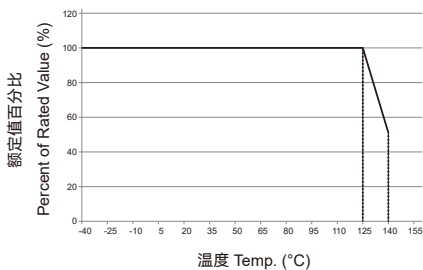


常温系列温度降额曲线

For Normal Temp. Series Products

备注: 应用环境温度超过85 °C 时, 峰值电流和能量额定值应按照上述曲线相应的降低。

Note: When ambient temp. exceeds 85 °C, the peak surge current and energy rating should be reduced as shown in above figure.



高温系列温度降额曲线

For High Temp. Series Products

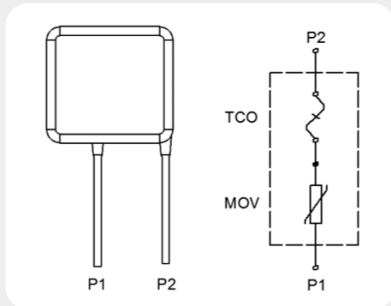
备注: 应用环境温度超过125 °C 时, 峰值电流和能量额定值应按照上述曲线相应的降低。

Note: For high temp. series, when ambient temp. exceeds 125 °C, the peak surge current and energy rating should be reduced as shown in the above figure.

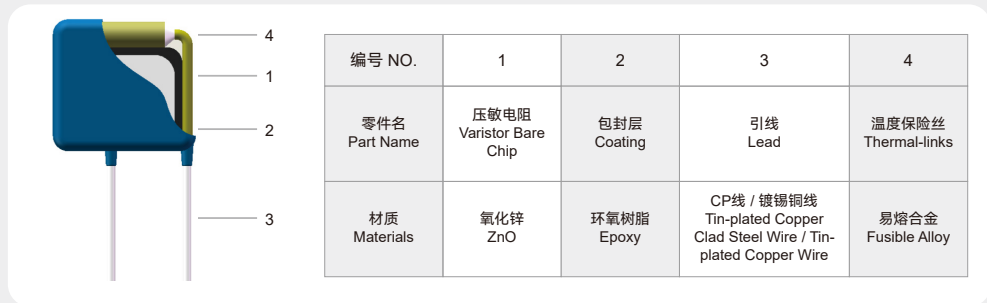
TFV Series

设计 Design

电气原理图 Schematics



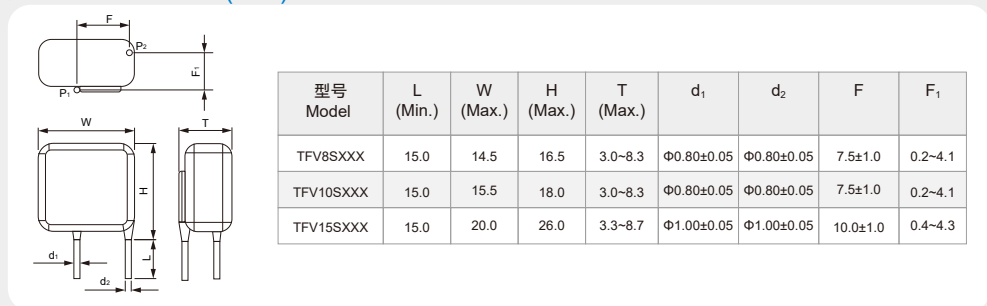
结构图 Structure



技术参数 Specification

系列 Series	标称压敏电压 Nominal Varistor Voltage (V)	标称放电电流 Normal Discharge Current (8/20 μ s) I_n (kA)	最大放电电流 Max. Discharge Current (8/20 μ s) I_{max} (kA)	上限类别温度 Upper Category Temp. ($^{\circ}$ C)	受限电流 Limited Current (A)
TFV8S	820~821	1.5	3.5	105	5.0
TFV10S	820~821	2.5	5.0	105	5.0
TFV15S	820~821	5.0	10.0	105	5.0

尺寸 Dimensions (mm)



应用 Applications		地区 Region	推荐规格 Recommended Model	参数要求 Parameter Requirement	符合标准 Designed to Standards
LED电源适配器 LED Driver		全球 Global World	10D201 - 10D681 or 14D201 - 14D621	满足6 kV浪涌抗扰度水平 6 kV Surge Immunity Level	IEC 61000-4-5
开关电源 Switched-mode Power Supply (SMPS)		全球 Global World	10D201 - 10D621	满足4.5 kV浪涌抗扰度水平 4.5 kV Surge Immunity Level	IEC 61000-4-5, ANNEX Q of IEC 60950
通讯电源 Telecom Power		全球 Global World	14D820 or 15S820	浪涌等级 Surge Level: ≥3 kA 限制电压 Limiting Voltage: ≤300 V	IEEE C62.41
防雷插座 Surge Protector		美洲 America	14D201 or 20D201	浪涌等级 Surge Level: ≥6 kV / 3 kA 限制电压 Limiting Voltage: ≤500 V	UL 1449 4th Edition TYPE 3 SPD
		欧洲 Europe	14D471 or 20D471	浪涌等级 Surge Level: ≥6 kV / 3 kA 限制电压 Limiting Voltage: ≤1000 V	IEC 61643-11:2012 CLASS III
电涌保护器 Surge Protective Device		美洲 America	20D201 or 25D201	浪涌等级 Surge Level: ≥10 kA 限制电压 Limiting Voltage: ≤500 V	UL 1449 4th Edition TYPE 5 SPD
		欧洲 Europe	25D431 - 25D821 or 34S431 - 34S821	浪涌等级 Surge Level: ≥20 kA 限制电压 Limiting Voltage: ≤2000 V	IEC 61643-11:2012 CLASS II

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20+

OVER 20 YEARS OF DESIGNING, MANUFACTURING
AND SELLING OF CIRCUIT PROTECTION COMPONENTS
超过20年的设计、制造、销售电路保护元器件

40+

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NO. 8067, 8001 West Xiang'an Road, Torch High-Tech
Industrial District, Xiang'an 361101 Xiamen P.R. China
www.SETsafe.com www.SETfuse.com
+86 592-5715-838 sales@SETfuse.com

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