

DA53 是利用微隙进行电场放电的浪涌保护元件。浪涌响应性好，可适应各种 AC 耐压试验，是需要较大浪涌耐量的电源线防浪涌的理想浪涌吸收元件。

The DA53 has a micro-gap cut to an accuracy of several tens of microns for rapid response against induced lightning and electrostatic discharges. Ideal for protecting power supplies from power-line surge voltage.

■ 特点

- 结构极小(直径5.3mm, 长度10mm)
- 可适应各种AC耐压试验
- 浪涌耐量大、3000A
- 浪涌响应性好, 限制电压低
- 静电容量小, 绝缘性优异
- 可稳定应对反复浪涌及环境变化
- 无极性
- 无明显场所的特性差异
- DA53系列可在各种电源电路中与压敏电阻组合使用
- 使用温度范围(一般规格): -40 ~ 125°C
- 保存温度范围(一般规格): -55 ~ 125°C

■ Features

- Small size. (φ 5.3mm 10mm length)
- Capable of many types of AC withstand tests.
- Used to protect power supplies.
- Quick response for surge voltage and low limiting voltage.
- Small capacitance and excellent insulation resistance.
- Stable for repeated discharge test conditions and environmental fluctuation.
- No polarity.
- No dark effect.
- DA53 series surge absorber in series with a varistor used for surge protection in many types of power supplies.
- Operating temperature limit : -40 ~ 125°C
- Storage Temperature Range : -55 ~ 125°C

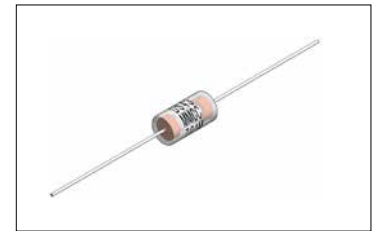
■ 型号构成 Part number system

DA53 — 622 M F — E15E

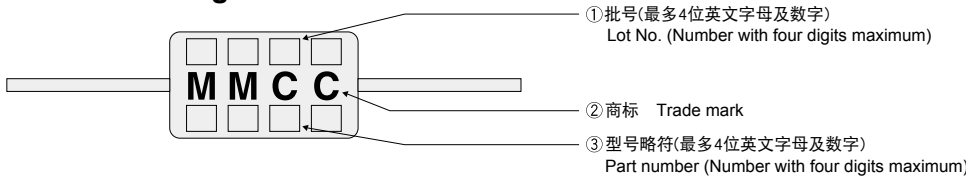
系列名 Series      直流放电开始电压 (Vs) DC Spark-over voltage (Vs)      直流放电开始电压容许偏差 DC Spark-over voltage tolerance      编带形式 Taping form

前2位数字表示电压值的有效数字, 第3位数字表示乘幕。  
The first two digits are significant, and the third is number of zeros.  
例) 622の表示  
Ex) 622 means:  
62 × 10<sup>2</sup> = 6200V

B	散装 Bulk pack
F-E15E	成型形状(导线间距15mm)、散装 Lead pitch 15mm, Bulk pack
F-E25E	成型形状(导线间距25mm)、散装 Lead pitch 25mm, Bulk pack
T-A22F	轴向(卧式)编带、扁平带装 Axial, ammo pack taping



■ 标记 Marking



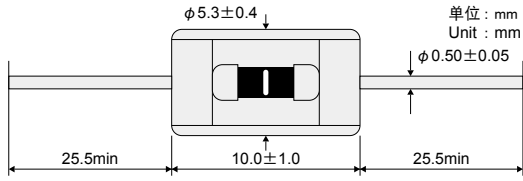
■ 特性 Characteristics

型号 Part number	直流放电开始电压 DC spark-over voltage Vs	绝缘阻抗 Insulation resistance IR		静电容量 Electrostatic capacity 1kHz-6V max C	浪涌耐量 Surge current capacity 8/20 μs	浪涌寿命 Surge life test	AC耐压 AC withstanding voltage	UL规格认证产品 UL recognized	CSA规格认证产品 CSA recognized	EN规格认证产品 EN recognized
								UL 1449 File No. E318314	C22.2 No.269.5-17 File No. 111411	EN62368-1 TÜV ReportNo.J9851289 (DA53-752M,782M), J9850855 (DA53-302M,362M,452M,622M)
NEW DA53-351M	350V(280~420)	≥ 100MΩ	DC 250V	< 1pF	3,000A	8/20 μs 100A 300times	—	○ 1)	—	—
DA53-501M	500V(400~600)							—	—	—
DA53-701M	700V(560~840)							○ 1)	—	—
DA53-272M	2,700V(2,160~3,240)							○ 1)	○ 1)	—
DA53-302M	3,000V(2,400~3,600)	DC 500V	< 1pF	3,000A	8/20 μs 100A 300times	—	○ 1)	○ 1)	○ 2)	
DA53-362M	3,600V(2,880~4,320)						○ 1)	○ 1)	○ 2)	
NEW DA53-452M	4,500V(3,600~5,400)						○ 1)	○ 1)	○ 2)	
DA53-622M	6,200V(4,960~7,440)						—	○ 1)	○ 2)	
DA53-752M	7,500V(6,000~9,000)	DC 1,000V	< 1pF	3,000A	8/20 μs 100A 300times	—	○ 1)	○ 1)	○ 2)	
DA53-782M	7,800V(6,240~9,360)						—	—	○ 2)	

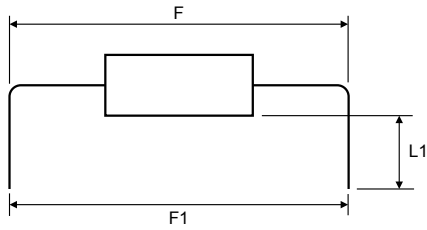
- 1) : 与压敏电阻 (AC125V : V1mA ≥ 270V, D ≥ φ 5mm, AC250V : V1mA ≥ 470V, D ≥ φ 5mm) 电气串联即可被认证。  
: Approved if used with a varistor (125VAC : V1mA ≥ 270V, φ ≥ 5mm ; 250VAC : V1mA ≥ 470V, φ ≥ 5mm) electrically connected in series.
- 2) : 与压敏电阻 (V1mA ≥ 470V, D ≥ φ 5mm) 电气串联即可被认证。  
: Approved if used with a varistor (V1mA ≥ 470V, φ ≥ 5mm) electrically connected in series.
- 3) : 安全标准认定条件可能会被修订。关于最新的认定状况, 请确认各标准的主页。  
: Safety standard certification conditions may be revised. Would you confirm the web site of each standard about the latest information.



■形状・尺寸 Dimensions



成形状态  
Forming form



形状 Forming : E15E

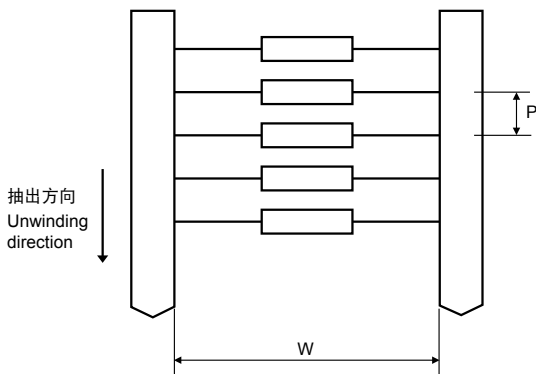
记号 Symbol	尺寸 Dimension (mm)
F	15.0±1.0
F1 <sup>1)</sup>	15.0(参考值 reference)
L1 <sup>2)</sup>	5.0±1.0

- 1) 测量位置为导线端面。
- 2) 测量位置为玻璃下面以及导线端面。
- 1) The measurement position is at the tip of the lead wire.
- 2) The measurement position is the lower surface of the glass and the tip of the lead wire.

形状 Forming : E25E

记号 Symbol	尺寸 Dimension (mm)
F	25.0±1.0
F1 <sup>1)</sup>	25.0(参考值 reference)
L1 <sup>2)</sup>	5.0±1.0

形状 Forming : A22F



记号 Symbol	尺寸 Dimension (mm)
P	10.0±0.5
W	52.0 +2.0/-1.0