

压敏电阻

Metal Oxide Varistor (MOV)

YMJ34S 系列



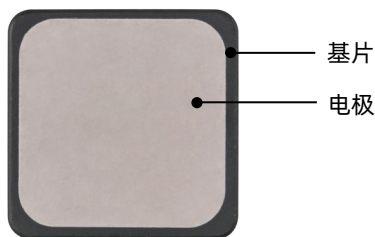
描述

金属氧化物压敏电阻 Metal Oxide Varistor (MOV) 是以氧化锌 (ZnO) 为主要成分的非线性电阻元件。其电阻对外加电压的变化敏感，在阈值电压以下，电阻非常高，流过的电流极小，相当于关闭的阀门，当电压超过阈值时，电阻急剧下降，流过的电流激增，相当于阀门打开，利用该特性，可以抑制电路中经常出现的异常过电压，保护电路免受过电压的损害。

金属氧化物压敏电阻 Metal Oxide Varistor (MOV) 广泛应用于光伏、通信、防雷器、电源和插座等领域，限制电路中的瞬态过电压和吸收浪涌能量。

赛尔特(SETsafe | SETfuse) 公司的金属氧化物压敏电阻 Metal Oxide Varistor (MOV) YMJ34S 系列具有最大峰值电流: 40 kA; 最大连续工作电压: (50~750) VAC; 安规认证UL、cUL; 符合RoHS、REACH要求。

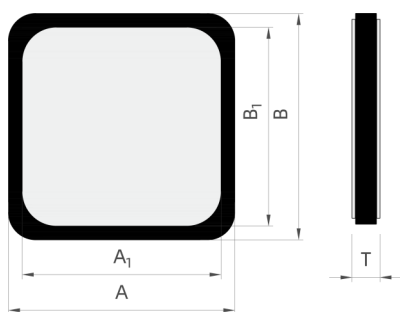
产品结构



安规信息

| 认证标志 | 执行标准 | 赛尔特获得的档案号、认证号 |
|------|---------------------------------|---------------|
| | UL 1449 5 th Edition | E322662 |
| | CSA C22.2 NO.269.5-17 | E322662 |

尺寸



| 系列 | 符号 | 尺寸 (mm) |
|--------|----------------|-------------|
| YMJ34S | A | 32.4 ~ 33.7 |
| | B | |
| | A ₁ | 29.0 ± 0.6 |
| | B ₁ | |
| | T | 见参数表 |

压敏电阻

Metal Oxide Varistor (MOV)

YMJ34S 系列

技术参数

| 型号 | 最大连续工作电压 | | 压敏电压 @1 mA DC | | 箝制电压 (Max.) | | 最大放电电流 (8/20 μs) | | 最大能量 (10/1000 μs) | 静态电容 @1 kHz | 厚度 | 认证信息 | |
|------------|----------|------|---------------|------|----------------|----------------|------------------|------------------|-------------------|-------------|-----------|------|-----|
| | VAC | VDC | Min. | Max. | V _C | I _P | I _n | I _{max} | | | | UL | cUL |
| | (V) | (V) | (V) | (V) | (V) | (A) | (kA) | (kA) | (J) | (pF) | (mm) | | |
| YMJ34S820K | 50 | 65 | 74 | 90 | 135 | 300 | 20 | 40 | 156 | 17950 | 0.7 ~ 1.1 | ● | ● |
| YMJ34S101K | 60 | 85 | 90 | 110 | 165 | 300 | 20 | 40 | 195 | 15000 | 0.8 ~ 1.2 | ● | ● |
| YMJ34S121K | 75 | 100 | 108 | 132 | 200 | 300 | 20 | 40 | 235 | 12200 | 1.0 ~ 1.5 | ● | ● |
| YMJ34S151K | 95 | 125 | 135 | 165 | 250 | 300 | 20 | 40 | 296 | 10000 | 1.2 ~ 1.9 | ● | ● |
| YMJ34S181K | 115 | 150 | 162 | 198 | 300 | 300 | 20 | 40 | 350 | 8250 | 0.9 ~ 1.2 | ● | ● |
| YMJ34S201K | 130 | 170 | 180 | 220 | 340 | 300 | 20 | 40 | 400 | 6750 | 1.0 ~ 1.3 | ● | ● |
| YMJ34S221K | 140 | 180 | 198 | 242 | 360 | 300 | 20 | 40 | 450 | 6400 | 1.1 ~ 1.5 | ● | ● |
| YMJ34S241K | 150 | 200 | 216 | 264 | 395 | 300 | 20 | 40 | 480 | 5650 | 1.2 ~ 1.6 | ● | ● |
| YMJ34S271K | 175 | 225 | 243 | 297 | 455 | 300 | 20 | 40 | 540 | 5100 | 1.4 ~ 1.8 | ● | ● |
| YMJ34S301K | 190 | 250 | 270 | 330 | 500 | 300 | 20 | 40 | 600 | 4510 | 1.5 ~ 2.0 | ● | ● |
| YMJ34S331K | 210 | 275 | 297 | 363 | 550 | 300 | 20 | 40 | 656 | 4150 | 1.7 ~ 2.2 | ● | ● |
| YMJ34S361K | 230 | 300 | 324 | 396 | 595 | 300 | 20 | 40 | 745 | 3750 | 1.9 ~ 2.4 | ● | ● |
| YMJ34S391K | 250 | 320 | 351 | 429 | 650 | 300 | 20 | 40 | 830 | 3500 | 2.1 ~ 2.6 | ● | ● |
| YMJ34S431K | 275 | 350 | 387 | 473 | 710 | 300 | 20 | 40 | 920 | 2950 | 2.2 ~ 2.8 | ● | ● |
| YMJ34S471K | 300 | 385 | 423 | 517 | 775 | 300 | 20 | 40 | 1000 | 2880 | 2.4 ~ 3.1 | ● | ● |
| YMJ34S511K | 320 | 415 | 459 | 561 | 845 | 300 | 20 | 40 | 1060 | 2650 | 2.6 ~ 3.3 | ● | ● |
| YMJ34S561K | 350 | 460 | 504 | 616 | 925 | 300 | 20 | 40 | 1150 | 2450 | 2.9 ~ 3.7 | ● | ● |
| YMJ34S621K | 385 | 505 | 558 | 682 | 1025 | 300 | 20 | 40 | 1250 | 2200 | 3.2 ~ 4.0 | ● | ● |
| YMJ34S681K | 420 | 560 | 612 | 748 | 1120 | 300 | 20 | 40 | 1250 | 2000 | 3.5 ~ 4.4 | ● | ● |
| YMJ34S751K | 460 | 615 | 675 | 825 | 1240 | 300 | 20 | 40 | 1280 | 1820 | 3.9 ~ 4.9 | ● | ● |
| YMJ34S821K | 510 | 670 | 738 | 902 | 1355 | 300 | 20 | 40 | 1300 | 1800 | 4.3 ~ 5.3 | ● | ● |
| YMJ34S911K | 550 | 745 | 819 | 1001 | 1500 | 300 | 20 | 40 | 1475 | 1500 | 4.8 ~ 5.9 | ● | ● |
| YMJ34S102K | 625 | 825 | 900 | 1100 | 1650 | 300 | 20 | 40 | 1550 | 1350 | 5.2 ~ 6.5 | ● | ● |
| YMJ34S112K | 680 | 895 | 990 | 1210 | 1815 | 300 | 20 | 40 | 1750 | 1230 | 5.8 ~ 7.1 | ● | ● |
| YMJ34S122K | 750 | 1000 | 1080 | 1320 | 1980 | 300 | 20 | 40 | 2000 | 1135 | 6.3 ~ 7.8 | ● | ● |

备注: ● 已认证 ○ 无认证 ● 满足RoHS、REACH要求

压敏电阻 (MOV) 特性与型号概览

| AC | DC | 0.5 | 1 | 1.75 | 2 | 3 | 3.5 | 6 | 10 | 20 | 70 | 型号 | | |
|------|------|------|--------------|---------------|--------------|---|---------------|---------------|---------------|---------------|---------------|--------------------|----------------------------|-----|
| | | | | | | | | | | | | 最大连续工作电压 U_n (V) | 最大峰值电流 (8/20 μ s) (kA) | |
| 480V | 500V | | | | | | SFV10D122K(T) | SFV14D122K(T) | SFV20D122K(T) | SFV25D122K(T) | SFV53D122K | 750 | 990 | |
| | | | | | | | SFV10D112K(T) | SFV14D112K(T) | SFV20D112K(T) | SFV25D112K(T) | SFV53D112K | 680 | 895 | |
| | | | | | | | SFV10D102K(T) | SFV14D102K(T) | SFV20D102K(T) | SFV25D102K(T) | SFV53D102K | 625 | 825 | |
| | | | | | | | SFV10D911K(T) | SFV14D911K(T) | SFV20D911K(T) | SFV25D911K(T) | SFV53D911K | 550 | 745 | |
| | | | | SFV7D821K(T) | | | | SFV10D821K(T) | SFV14D821K(T) | SFV20D821K(T) | SFV25D821K(T) | SFV53D821K | 510 | 670 |
| | | | | SFV7D751K(T) | | | | SFV10D751K(T) | SFV14D751K(T) | SFV20D751K(T) | SFV25D751K(T) | SFV53D751K | 460 | 615 |
| | 380V | 240V | | | SFV7D681K(T) | | | SFV10D681K(T) | SFV14D681K(T) | SFV20D681K(T) | SFV25D681K(T) | SFV53D681K | 420 | 560 |
| | | | | | SFV7D621K(T) | | | SFV10D621K(T) | SFV14D621K(T) | SFV20D621K(T) | SFV25D621K(T) | SFV53D621K | 385 | 505 |
| | | | | | SFV7D561K(T) | | | SFV10D561K(T) | SFV14D561K(T) | SFV20D561K(T) | SFV25D561K(T) | SFV53D561K | 350 | 460 |
| | | | | | SFV7D511K(T) | | | SFV10D511K(T) | SFV14D511K(T) | SFV20D511K(T) | SFV25D511K(T) | SFV53D511K | 320 | 415 |
| | | | | | SFV7D471K(T) | | | SFV10D471K(T) | SFV14D471K(T) | SFV20D471K(T) | SFV25D471K(T) | SFV53D471K | 300 | 385 |
| | | | | | SFV7D431K(T) | | | SFV10D431K(T) | SFV14D431K(T) | SFV20D431K(T) | SFV25D431K(T) | SFV53D431K | 275 | 350 |
| 100V | 250V | | | SFV7D391K(T) | | | SFV10D391K(T) | SFV14D391K(T) | SFV20D391K(T) | SFV25D391K(T) | SFV53D391K | 250 | 320 | |
| | | | | SFV7D361K(T) | | | SFV10D361K(T) | SFV14D361K(T) | SFV20D361K(T) | SFV25D361K(T) | SFV53D361K | 230 | 300 | |
| | | | | SFV7D331K(T) | | | SFV10D331K(T) | SFV14D331K(T) | SFV20D331K(T) | SFV25D331K(T) | SFV53D331K | 210 | 275 | |
| | | | | SFV7D301K(T) | | | SFV10D301K(T) | SFV14D301K(T) | SFV20D301K(T) | SFV25D301K(T) | SFV53D301K | 190 | 250 | |
| | | | | SFV7D271K(T) | | | SFV10D271K(T) | SFV14D271K(T) | SFV20D271K(T) | SFV25D271K(T) | SFV53D271K | 175 | 225 | |
| | | | | SFV7D241K(T) | | | SFV10D241K(T) | SFV14D241K(T) | SFV20D241K(T) | SFV25D241K(T) | SFV53D241K | 150 | 200 | |
| 100V | 120V | | | SFV7D221K(T) | | | SFV10D221K(T) | SFV14D221K(T) | SFV20D221K(T) | SFV25D221K(T) | SFV53D221K | 140 | 180 | |
| | | | | SFV7D201K(T) | | | SFV10D201K(T) | SFV14D201K(T) | SFV20D201K(T) | SFV25D201K(T) | SFV53D201K | 130 | 170 | |
| | | | | SFV7D181K(T) | | | SFV10D181K(T) | SFV14D181K(T) | SFV20D181K(T) | SFV25D181K(T) | SFV53D181K | 115 | 150 | |
| | | | | SFV7D151K(T) | | | SFV10D151K(T) | SFV14D151K(T) | SFV20D151K(T) | SFV25D151K(T) | SFV53D151K | 95 | 125 | |
| | | | | SFV7D121K(T) | | | SFV10D121K(T) | SFV14D121K(T) | SFV20D121K(T) | SFV25D121K(T) | SFV53D121K | 75 | 100 | |
| | | | | SFV7D101K(T) | | | SFV10D101K(T) | SFV14D101K(T) | SFV20D101K(T) | SFV25D101K(T) | SFV53D101K | 60 | 85 | |
| 48V | 12V | | | SFV7D820K(T) | | | SFV10D820K(T) | SFV14D820K(T) | SFV20D820K(T) | SFV25D820K(T) | SFV53D820K | 50 | 65 | |
| | | | SFV7D680K(T) | SFV10D680K(T) | | | SFV14D680K(T) | SFV20D680K(T) | | | | 40 | 56 | |
| | | | SFV7D560K(T) | SFV10D560K(T) | | | SFV14D560K(T) | SFV20D560K(T) | | | | 35 | 45 | |
| | | | SFV7D470K(T) | SFV10D470K(T) | | | SFV14D470K(T) | SFV20D470K(T) | | | | 30 | 38 | |
| | | | SFV7D390K(T) | SFV10D390K(T) | | | SFV14D390K(T) | SFV20D390K(T) | | | | 25 | 31 | |
| | | | SFV7D330K(T) | SFV10D330K(T) | | | SFV14D330K(T) | SFV20D330K(T) | | | | 20 | 26 | |
| 24V | 12V | | | SFV7D270K(T) | | | SFV10D270K(T) | SFV14D270K(T) | SFV20D270K(T) | | | 17 | 22 | |
| | | | | SFV7D220K(T) | | | SFV10D220K(T) | SFV14D220K(T) | SFV20D220K(T) | | | 14 | 18 | |

最大峰值电流 (8/20 μ s) (kA)

最大连续工作电压 U_n (V)

型号

额定工作电压 U_n (V)

压敏电阻 (MOV) 特性与型号概览

| 额定工作电压 U_n (V) | AC | DC | 型号 | | | | 最大连续工作电压 U_n (V) | | | |
|------------------|------|----|------|-------------|-------------|-------------|--------------------|-------------|-----|-----|
| | | | 1.75 | 3.5 | 6 | 10 | 20 | AC | DC | |
| 500V | 480V | | ○ | SFV10D122KM | SFV14D122KM | SFV20D122KM | SFV25D122KM | 750 | 990 | |
| | | | ○ | SFV10D112KM | SFV14D112KM | SFV20D112KM | SFV25D112KM | 680 | 895 | |
| | 415V | | ○ | SFV10D102KM | SFV14D102KM | SFV20D102KM | SFV25D102KM | 625 | 825 | |
| | | | ○ | SFV10D911KM | SFV14D911KM | SFV20D911KM | SFV25D911KM | 550 | 745 | |
| 380V | | | | SFV7D821KM | SFV10D821KM | SFV14D821KM | SFV20D821KM | SFV25D821KM | 510 | 670 |
| | | | | SFV7D751KM | SFV10D751KM | SFV14D751KM | SFV20D751KM | SFV25D751KM | 460 | 615 |
| 100V | | | | SFV7D681KM | SFV10D681KM | SFV14D681KM | SFV20D681KM | SFV25D681KM | 420 | 560 |
| | | | | SFV7D621KM | SFV10D621KM | SFV14D621KM | SFV20D621KM | SFV25D621KM | 385 | 505 |
| 240V | | | | SFV7D561KM | SFV10D561KM | SFV14D561KM | SFV20D561KM | SFV25D561KM | 350 | 460 |
| | | | | SFV7D511KM | SFV10D511KM | SFV14D511KM | SFV20D511KM | SFV25D511KM | 320 | 415 |
| 100V | | | | SFV7D471KM | SFV10D471KM | SFV14D471KM | SFV20D471KM | SFV25D471KM | 300 | 385 |
| | | | | SFV7D431KM | SFV10D431KM | SFV14D431KM | SFV20D431KM | SFV25D431KM | 275 | 350 |
| 250V | | | | SFV7D391KM | SFV10D391KM | SFV14D391KM | SFV20D391KM | SFV25D391KM | 250 | 320 |
| | | | | SFV7D361KM | SFV10D361KM | SFV14D361KM | SFV20D361KM | SFV25D361KM | 230 | 300 |
| 120V | | | | SFV7D331KM | SFV10D331KM | SFV14D331KM | SFV20D331KM | SFV25D331KM | 210 | 275 |
| | | | | SFV7D301KM | SFV10D301KM | SFV14D301KM | SFV20D301KM | SFV25D301KM | 190 | 250 |
| 125V | | | | SFV7D271KM | SFV10D271KM | SFV14D271KM | SFV20D271KM | SFV25D271KM | 175 | 225 |
| | | | | SFV7D241KM | SFV10D241KM | SFV14D241KM | SFV20D241KM | SFV25D241KM | 150 | 200 |
| 100V | | | | SFV7D221KM | SFV10D221KM | SFV14D221KM | SFV20D221KM | SFV25D221KM | 140 | 180 |
| | | | | SFV7D201KM | SFV10D201KM | SFV14D201KM | SFV20D201KM | SFV25D201KM | 130 | 170 |
| 48V | | | | SFV7D181KM | SFV10D181KM | SFV14D181KM | SFV20D181KM | SFV25D181KM | 115 | 150 |
| | | | | SFV7D151KM | SFV10D151KM | SFV14D151KM | SFV20D151KM | SFV25D151KM | 95 | 125 |
| 24V | | | | SFV7D121KM | SFV10D121KM | SFV14D121KM | SFV20D121KM | SFV25D121KM | 75 | 100 |
| | | | | SFV7D101KM | SFV10D101KM | SFV14D101KM | SFV20D101KM | SFV25D101KM | 60 | 85 |
| 12V | | | | SFV7D820KM | SFV10D820KM | SFV14D820KM | SFV20D820KM | SFV25D820KM | 50 | 65 |
| | | | | ○ | ○ | SFV25D680KM | ○ | ○ | 40 | 56 |
| | | | | ○ | ○ | SFV25D560KM | ○ | ○ | 35 | 45 |
| | | | | ○ | ○ | SFV25D470KM | ○ | ○ | 30 | 38 |
| | | | | ○ | ○ | ○ | ○ | ○ | 25 | 31 |
| | | | | ○ | ○ | ○ | ○ | ○ | 20 | 26 |
| | | | | ○ | ○ | ○ | ○ | ○ | 17 | 22 |
| | | | | ○ | ○ | ○ | ○ | ○ | 14 | 18 |

最大峰值电流 (8/20 μ s) (kA)

压敏电阻 (MOV) 特性与型号概览

| 额定工作电压 U_n (V) | | 型号 | | | | | | | | | | | 最大连续工作电压 U_n (V) | |
|------------------|------|----|---|------------|--|------------|--------------------------|------------|------------|------------|------------|------------|--------------------|-----|
| AC | DC | 2 | 3 | 5 | 6 | 8 | 10 | 15 | 20 | 25 | 40 | AC | DC | |
| 480V | 500V | | | | | | | SFV20S122K | | SFV25S122K | SFV34S122K | 750 | 990 | |
| | | | | | | | | SFV20S112K | | SFV25S112K | SFV34S112K | 680 | 895 | |
| | | | | | | | | SFV20S102K | | SFV25S102K | SFV34S102K | 625 | 825 | |
| | | | | | | | | SFV20S911K | | SFV25S911K | SFV34S911K | 550 | 745 | |
| | | | | | | | | SFV20S821K | | SFV25S821K | SFV34S821K | 510 | 670 | |
| | 415V | | | | SFV10S821K | | | SFV15S821K | SFV20S821K | | SFV25S821K | SFV34S821K | 460 | 615 |
| | | | | | SFV10S751K | | | SFV15S751K | SFV20S751K | | SFV25S751K | SFV34S751K | 420 | 560 |
| | | | | | SFV10S681K | | | SFV15S681K | SFV20S681K | | SFV25S681K | SFV34S681K | 385 | 505 |
| | | | | | SFV10S621K | | | SFV15S621K | SFV20S621K | | SFV25S621K | SFV34S621K | 350 | 460 |
| | | | | | SFV10S561K | | | SFV15S561K | SFV20S561K | | SFV25S561K | SFV34S561K | 320 | 415 |
| 380V | 250V | | | | | | | SFV15S511K | SFV20S511K | | SFV25S511K | SFV34S511K | 300 | 385 |
| | | | | | | | | SFV15S471K | SFV20S471K | | SFV25S471K | SFV34S471K | 275 | 350 |
| | | | | | | | | SFV15S431K | SFV20S431K | | SFV25S431K | SFV34S431K | 250 | 320 |
| | | | | | | | | SFV15S391K | SFV20S391K | | SFV25S391K | SFV34S391K | 230 | 300 |
| | | | | | | | | SFV15S361K | SFV20S361K | | SFV25S361K | SFV34S361K | 210 | 275 |
| | 100V | | | | SFV10S331K | | | SFV15S331K | SFV20S331K | | SFV25S331K | SFV34S331K | 190 | 250 |
| | | | | | SFV10S301K | | | SFV15S301K | SFV20S301K | | SFV25S301K | SFV34S301K | 175 | 225 |
| | | | | | SFV10S271K | | | SFV15S271K | SFV20S271K | | SFV25S271K | SFV34S271K | 150 | 200 |
| | | | | | SFV10S241K | | | SFV15S241K | SFV20S241K | | SFV25S241K | SFV34S241K | 140 | 180 |
| | | | | | SFV10S221K | | | SFV15S221K | SFV20S221K | | SFV25S221K | SFV34S221K | 130 | 170 |
| 240V | 125V | | | | | | | SFV15S201K | SFV20S201K | | SFV25S201K | SFV34S201K | 115 | 150 |
| | | | | | | | | SFV15S181K | SFV20S181K | | SFV25S181K | SFV34S181K | 95 | 125 |
| | | | | | | | | SFV15S151K | SFV20S151K | | SFV25S151K | SFV34S151K | 75 | 100 |
| | | | | | | | | SFV15S121K | SFV20S121K | | SFV25S121K | SFV34S121K | 60 | 85 |
| | | | | | | | | SFV15S101K | SFV20S101K | | SFV25S101K | SFV34S101K | 50 | 65 |
| | 100V | | | | SFV10S820K | | | SFV15S820K | SFV20S820K | | SFV25S820K | SFV34S820K | 40 | 56 |
| | | | | SFV10S680K | SFV15S680K | SFV20S680K | | | SFV25S680K | | SFV34S680K | | 35 | 45 |
| | | | | SFV10S560K | SFV15S560K | SFV20S560K | | | SFV25S560K | | SFV34S560K | | 30 | 38 |
| | | | | SFV10S470K | SFV15S470K | SFV20S470K | | SFV25S470K | | | SFV34S470K | | 25 | 31 |
| | | | | SFV10S390K | SFV15S390K SFV20S390K | | | SFV25S390K | | | | | 20 | 26 |
| 100V | 12V | | | SFV10S330K | | | SFV15S330K SFV20S330K | | SFV25S330K | | | 17 | 22 | |
| | | | | SFV10S270K | SFV15S270K SFV20S270K | | SFV25S270K | | | | | 14 | 18 | |
| | | | | SFV10S220K | SFV15S220K SFV20S220K SFV25S220K | | | | | | | | | |

最大峰值电流 (8/20 μs) (kA)