

## Description

The Littelfuse Varistor Protection（LVSP）Fuses are intended for the protection of TVSS products．The LVSP series has been designed to survive the $8 \times 20 \mu$ s lightning surges described in various standards（UL 1449，IEC 61000－4－5 and IEEE C62．41）without opening．This allows the TVSS to perform the necessary suppression．The LVSP is not rated for continuous current and the ratings are specific $8 \times 20 \mu$ s surge capability．The LVSP series can be used to facilitate TVSS module compliance to UL 1449 in permanently connected applications（abnormal overvoltage，unlimited current conditions）．

## Features／Benefits

－Very current limiting under AC short－circuit conditions
－Available in multiple mounting configurations （cartridge，bolt－in，PC board mount）
－Provides short circuit protection in TVSS systems and complements the Littelfuse line of overvoltage products （HA，HB34，TMOV ${ }^{\circledR}$ and iTMOV $^{\circledR}$ varistors as well as the AK－10 series TVS diodes）

## Applications

－TVSS products
－Surge arrestors

## Specifications

| Voltage Rating | 600 V ac |
| :--- | :--- |
| Interrupting Rating | 200 kA |
| Ratings | $5-100 \mathrm{kA} 8 \times 20 \mu \mathrm{~s}$ surge withstand |
| Approvals | UL Recognized（File：E71611） |
| Environmental | RoHs Compliant |

## Part Numbering System



| $\begin{aligned} & \stackrel{\sim}{\sim} \\ & \stackrel{\sim}{w} \end{aligned}$ |  |  | $\begin{aligned} & \text { 山己 } \\ & 02 \\ & \text { 気 } \\ & \text { a } \end{aligned}$ | MOUNTING METHOD | CATALOG NUMBER | ORDERING NUMBER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LVSP | 5 | 0005 | 10 | CARTRIDGE | LVSP05－2 | LVSP0005TX2 |
| LVSP | 15 | 0015 | 10 | CARTRIDGE | LVSP15－2 | LVSP0015TX2 |
| LVSP | 20 | 0020 | 100 | LEADED | LVSP20－R | LVSP0020HXR |
| LVSP | 80 | 0080 | 10 | BOLT－IN | LVSP80 | LVSP0080T |

Recommended Fuse Blocks
LVSP（5－20）－2
L60030M（open block）• LPSM（dead front）
LVSP（30－80）－2
LFJ60030（open block）• LFPSJ30（dead front）
LVSP（100）
LFJ60100（open block）

## Web Resources

Download other technical information： littelfuse．com／Ivsp

## Electrical Specifications

|  |  |  |  | CARTRIDGE |  | LEADED |  | BOLT－IN |  | $8 \times 20 \mu \mathrm{~S}$ SURGE RATING | NOMINAL MELTING $I^{2 T}\left(A^{2} S\right)$ | NOMINAL CLEARING ${ }^{2} T$（ $A^{2} S$ ） | Ipeak＠100 kA $60 \mathrm{HZ}(\mathrm{A})$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | CATALOG NUMBER | ORDERING NUMBER | CATALOG NUMBER | ORDERING NUMBER | CATALOG NUMBER | ORDERING NUMBER |  |  |  |  |
| 5 | 0005 | 600 | 200 | LVSP5－2 | LVSP0005TX2 | LVSP5－R | LVSP0005TXR | － | － | 5，000 | 359 | 981 | 3，700 |
| 10 | 0010 | 600 | 200 | LVSP10－2 | LVSP0010TX2 | LVSP10－R | LVSP0010TXR | － | － | 10，000 | 1，300 | 3，210 | 5，823 |
| 15 | 0015 | 600 | 200 | LVSP15－2 | LVSP0015TX2 | LVSP15－R | LVSP0015TXR | － | － | 15，000 | 3，267 | 6，235 | 7，765 |
| 20 | 0020 | 600 | 200 | LVSP20－2 | LVSP0020TX2 | LVSP20－R | LVSP0020TXR | － | － | 20，000 | 4，940 | 11，710 | 8，135 |
| 30 | 0030 | 600 | 200 | LVSP30－2 | LVSP0030TX2 | － | － | LVSP30 | LVSP0030T | 30，000 | 11，950 | 35，325 | 12，478 |
| 40 | 0040 | 600 | 200 | LVSP40－2 | LVSP0040TX2 | － | － | LVSP40 | LVSP0040T | 40，000 | 20，550 | 61，700 | 15，250 |
| 60 | 0060 | 600 | 200 | LVSP60－2 | LVSP0060TX2 | － | － | LVSP60 | LVSPOO6OT | 60，000 | 39，240 | 145，555 | 19，604 |
| 80 | 0080 | 600 | 200 | LVSP80－2 | LVSP0080TX2 | － | － | LVSP80 | LVSP0080T | 80，000 | 75，000 | 254，000 | 24，600 |
| 100 | 0100 | 600 | 200 | － | － | － | － | LVSP100－L | LVSP0100VXL | 100，000 | 160，747 | 413，000 | 36，600 |

## POWR-GARD ${ }^{\circledR}$ Fuse Datasheet

LVSP Surge Suppression Fuse

## Dimensions Inches (mm)

## Cartridge 5-20 A



Leaded 5-20 A


Bolt-In 100 A


