

## SURFACE MOUNT FUSE PROTECTION FOR HIGH CURRENT CIRCUITS



## Single Fuse Solution For High Current Applications

Reliably use one fuse instead of multiple fuses in parallel. Littelfuse 881 Series SMD Fuse enables high power equipment to use less board space. Available in 60A ~ 100A within a small footprint and low profile (6.8mm).

Minimize system loss and increase efficiency while protecting against overload fault current. High interrupting rating at 1500A@75VDC to suit a wide variety of applications. High surge withstand capability helps prevent nuisance trips due to transient voltage spikes.

### Applications

#### Data Center

- Blade Servers
- Server Chassis
- Backplane Boards
- Line Cards

#### Power System

- Uninterrupted Power Supply (UPS)
- Base Station Power Supply
- High Power Battery Systems
- Power Factor Correction (PFC) in high-wattage power supplies



DataSheet



Samples

## UL Recognized 75VDC-rated High-current NANO<sup>2</sup>® Subminiature SMD Fuse with Small Footprint



### Features

- Available in 60A ~ 100A current ratings
- High interrupting rating at 1500A@75VDC
- Opens in 60 seconds or less at 200% rated fuse current
- Surface mount type in a small footprint (12.5mm x 10mm) and low profile (6.8mm)

### Benefits

- Save space by using a single fuse rather than multiple fuses in parallel
- Reliably protect against overload and short circuit events
- Coordinated protection with upstream overcurrent protection devices
- Compatible with high speed pick and place assembly process



### Why a High-Current Surface Mount Fuse Needed?

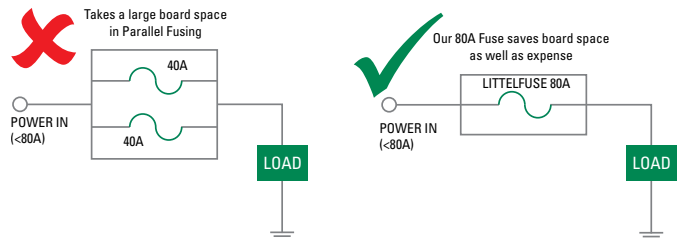
With the increasing demand for IoT connected devices and wireless cellular data traffic, datacenter system engineers are being asked to increase server capability. This increased computing power needs higher power electrical power and higher energy density equipment.

Littelfuse 881 Series SMT Fuse provides a single fuse solution up to 75VDC with 60A to 100A current rating range. The high current rating makes it possible for system designers to use a single fuse, where they previous would use two or more lower current rated fuses in parallel.

### Parallel Fuse Vs. Littelfuse 881 Series Fuse

Placing two or more fuses in parallel requires additional design effort to ensure nuisance trip avoidance when compared to using a single fuse. The below factors should be reviewed when comparing parallel fusing to using a single fuse:

- Same exact fuse part number from single manufacturer
- Multiple de-rating factors (Two 40A fuses does not equal One 80A fuse)
- Additional space and PCB layout complexity required to ensure proper current sharing



### Blade Server Protection

