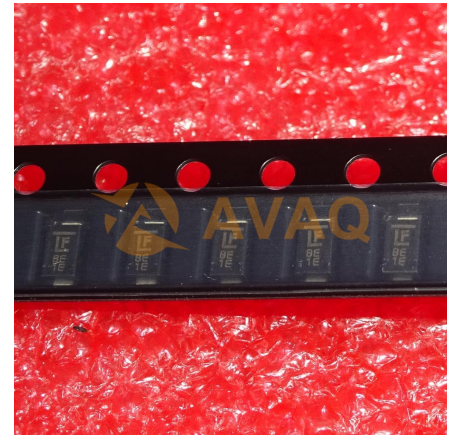


**Diode TVS Single Uni-Dir 12V 200W 2-Pin SOD-123F T/R****Manufacturer:** [Littelfuse Inc](#)**Package/Case:** SOD-123FL**Product Type:** Thyristors**Lifecycle:** Active

Images are for reference only

[Inquiry](#)**General Description**

The SMF series is designed specifically to protect sensitive electronic equipment from voltage transients induced by lightning and other transient voltage events. SMF package is 50% smaller in footprint when compare to SMA package and delivering one of the low height profiles (1.1mm) in the industry.

## Key Features

200W peak pulsepower capability at 10/1000µs waveform, repetition rate (duty cycle): 0.01%

Compatible with industrial standard package SOD-123FL

Low profile: maximum height of 1.1mm.

Low inductance, excellent clamping capability

For surface mounted applications to optimize board space

High temperature to reflow soldering guaranteed:  
260°C/430sec

Typical failure mode is short from over-specified voltage or current

Whisker test is conducted based on JEDEC JESD201A per its table 4a and 4c

IEC-61000-4-2 ESD 30kV(Air), 30kV (Contact)

ESD protection of data lines in accordance with IEC 61000-4-2

EFT protection of data lines in accordance with IEC 61000-4-4

Fast response time: typically less than 1.0ns from 0 Volts to VBR min

Glass passivated junction

Built-in strain relief

Plastic package is flammability rated V-0 per Underwriters Laboratories

Meet MSL level1, per J-STD-020, LF maximum peak of 260°C

Matte tin lead-free plated

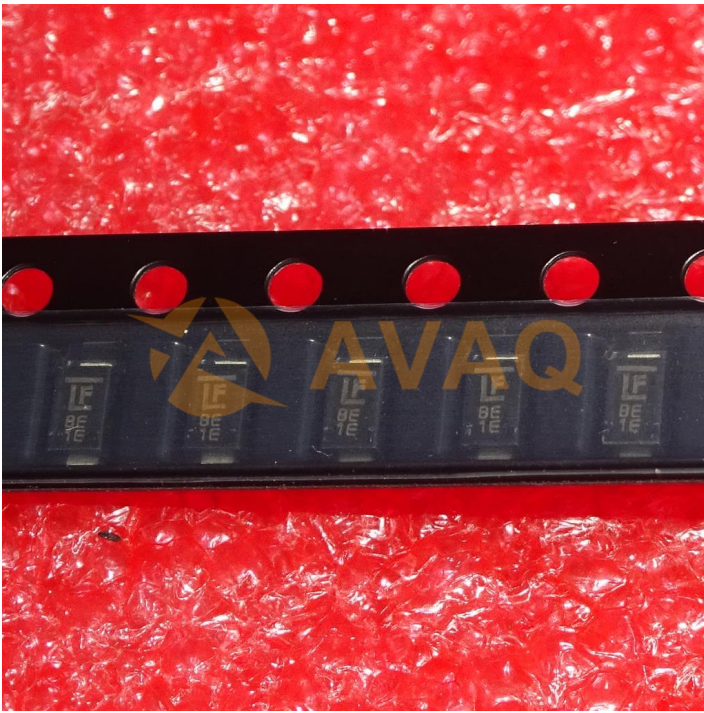
Halogen-free and RoHS compliant

Pb-free E3 means 2nd level interconnect is Pb-free and the terminal finish material is tin(Sn) (IPC/ JEDEC J-STD609A.01)

UL Recognized to UL 497B

## Application

SMF devices are ideal for the protection of I/O interfaces, VCC bus and other vulnerable circuit used in cellular phones, portable devices, business machines, power supplies and other consumer applications.



## Recommended For You

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### SMAJ12A

Littelfuse Inc

SMA

### SMAJ58CA

Littelfuse Inc

SMA

### SMBJ22A

Littelfuse Inc

SMB

### SMAJ30A

Littelfuse Inc

SMA

### SMBJ30A

Littelfuse Inc

SMB

### SMAJ24CA

Littelfuse Inc

DO-214AC

### SMBJ18A

Littelfuse Inc

SMB

### SMBJ24A

Littelfuse Inc

SMB

### SMBJ36CA

Littelfuse Inc

SMB

### SMAJ12CA

Littelfuse Inc

SMA

### SMCJ30CA

Littelfuse Inc

SMC

### SMAJ28CA

Littelfuse Inc

SMA

### SMBJ26CA

Littelfuse Inc

SMB

### SMBJ17A

Littelfuse Inc

SMB

### SMBJ20A

Littelfuse Inc

SMB