

Standard Components Business Unit

Small Signal Product Line

SOD123FL One Page Sell Sheets

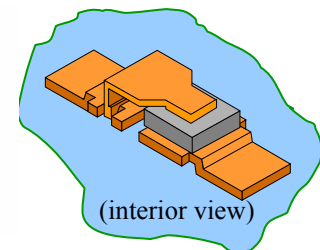
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ON Semiconductor®

New SOD123FL Package

SMF5.0 Series Transient Voltage Suppressor



Description

- Thin profile SOD123FL surface mount power package for portable applications
- The SMFxxBT1 protects voltage sensitive components from high voltage and high energy transients with excellent clamping capability, high surge capability, low zener impedance and fast response time.

Features

- Internal clip attach design
- 1.0mm max pkg. height, 33% lower than SOD123
- Same foot print as SOD123.
- Stand-off Voltage: 5 – 170 volt
- Meets
 - ESD > 16kV Human body model
 - protection meets IEC61000-4-2 level4
 - IEC61000-4-4 40A.

Applications

- GSM handsets and accessories
- Computers
- Printers
- Communication systems
- Protecting data transmission lines

Ordering Information

- SMFxxBT1, T3 3kU, 10kU/reel

Benefits

- ➔ Superior surge capability over wire bond packages. Ideal for TVS applications
- ➔ Ideal for portable applications and any situation requiring a low board profile
- ➔ Drop-in replacement with superior power
- ➔ Full range of clamping voltages
- ➔ Excellent protection from ESD and EFT pulses

More Information Online

See <http://>, SMF5.0

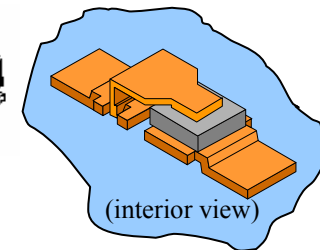
For: Datasheets www.onsemi.com



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MBR120VLSFT1, MBR120LSFT1 MBR120ESFT1 and MBR140SFT1

Low Forward Voltage or Low Leakage **SOD123FL** Schottky Rectifiers



Description

Low forward voltage drop (V_F) or Low Leakage (I_R), 1 amp, 20 volt reverse breakdown Schottky rectifiers, and a 1 amp, 40 volt reverse breakdown Schottky rectifier in the space saving, low profile SOD123FL surface mount power package.

Features

- **VL** version very low V_F rating of 0.27 V ($T_J=25^\circ\text{C}$)
- **L** version low V_F rating of 0.35 V ($T_J=25^\circ\text{C}$)
- **E** version optimized for low leakage current
- 25% Lower thermal resistance than SOD123
- 1.0mm max package height, 45% lower than SOD123 yet maintains same foot print.

Ordering Information

- | | | |
|---------------------------|----------|-----------------|
| ■ MBR120VLSFT1, T3 | SOD123FL | 3kU, 10kU /reel |
| ■ MBR120LSFT1, T3 | SOD123FL | 3kU, 10kU /reel |
| ■ MBR120ESFT1, T3 | SOD123FL | 3kU, 10kU /reel |
| ■ MBR140SFT1, T3 | SOD123FL | 3kU, 10kU /reel |

Applications

- Battery management and protection
- Power supplies
- Portable and wireless systems
- GSM handsets and accessories
- Computers, PDAs
- Printers
- Communications systems

Benefits

- ➔ Low conduction losses, reduced battery drain, lower operating temperature
- ➔ Longer battery life
- ➔ Lower operating temperature
- ➔ Meets industry standard for low profile package requirements

More Information Online

- See <http://www.onsemi.com> for:
 - Datasheets: MBR120LSFT1/D, MBR120VLSFT1/D, MBR120ELSFT1/D, MBR140SFT1/D
 - Samples and budgetary pricing



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