

Product Overview

MBR130LSF: Schottky Power Rectifier, Surface Mount, 1.0 A, 30 V

For complete documentation, see the data sheet.

Using the Schottky barrier principle with a large area metal-to-silicon power diode. Ideally suited for low voltage, high frequency rectification or as free wheeling and polarity protection diodes in surface mount applications where compact size and weight are critical to the system. This package also provides an easy to work with alternative to the leadless 34 package style. Because of its small size, it is ideal for use in portable and battery powered products such as cellular and cordless phones, chargers, notebook computers, printers, PDAs and PC/MICA cards. Typical applications are AC-DC and DC-DC converters, reverse battery protection, and ORing of multiple supply voltages and any other application where performance and size are critical.

Features

- Guardring for Stress Protection
- Low Forward Voltage Drop
- 125°C Operating Junction Temperature
- Epoxy Meets UL94, V-0
- Package Designed for Optimal Automated Board Assembly
- Cathode Lead Indicated by polarity Band
- ESD Ratings: Machine Model = C, Human Body Model = 3B
- Device Meets MSL 1 Requirements
- Lead Finish: 100% Matte Sn (Tin)
- Pb-Free Package is Available

For more features, see the data sheet

Applications

- AC-DC and DC-DC Converters
- Reverse Battery Protection

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Configuration	V_{RRM} Min (V)	V_F Max (V)	I_{RM} Max (μ A)	$I_{O(rec)Max}$ (A)	I_{FSM} Max (A)	t_{rr} Max (ns)	C_j Max (pF)	Package Type
MBR130LSFT1G	0.072	Pb-free Halide free	Active	Single	30	0.38	1000	1	40	-	-	SOD-123FL
NRVB130LSFT1G	0.1127	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	30	0.38	1000	1	40	-	-	SOD-123FL

For more information please contact your local sales support at www.onsemi.com.

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