

## Product Overview

### MBR120VLSF: Schottky Power Rectifier, Surface Mount, 1.0 A, 20 V

For complete documentation, see the data sheet.

The MBR120VLSFT1 uses 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 PCMCIA cards. Typical applications are ac/dc and dc-dc converters, reverse battery protection, "ORing" of multiple supply voltages and any other application where performance and size are critical.

### Features

- Guardring for Stress Protection
- Optimized for Very Low Forward Voltage
- 125 C Operating Junction Temperature
- Epoxy Meets UL94, VO
- Package Designed for Optimal Automated Board Assembly
- ESD Rated Machine Model C
- ESD Rated Human Body Model 3B
- Device Meets MSL 1 Requirements
- Pb-Free Packages are Available

### Part Electrical Specifications

Product	Compliance	Status	Configuration	$V_{RRM}$ Min (V)	$V_F$ Max (V)	$I_{RM}$ Max (μA)	$I_{O(rec)}$ Max (A)	$I_{FSM}$ Max (A)	$t_{rr}$ Max (ns)	$C_j$ Max (pF)	Package Type
MBR120VLSFT1G	Pb-free	Active	Single	20	0.34	600	1	45	-	-	SOD-123FL
	Halide free										
MBR120VLSFT3G	Pb-free	Active	Single	20	0.34	600	1	45	-	-	SOD-123FL
	Halide free										
NRVB120VLSFT1G	AEC Qualified	Active	Single	20	0.34	600	1	45	-	-	SOD-123FL
	PPAP Capable										
	Pb-free										
	Halide free										

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