

## Product Overview

### MBR130: Schottky Power Rectifier, Surface Mount, 1.0 A, 30 V

For complete documentation, see the data sheet.

The Schottky Rectifier employs the Schottky Barrier principle with a large area metal-to-silicon power diode. It is 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.

### Features

- Guardring for Stress Protection
- Low Forward Voltage
- 125°C Operating Junction Temperature
- Epoxy Meets UL94, VO at 1/8"
- Package Designed for Optimal Automated Board Assembly
- ESD Ratings: Machine Model, C; Human Body Model, 3Mechanical Characteristics
- Reel Options: MBR130T1 = 3,000 per 7, reel/8 mm tape MBR130T3 = 10,000 per 13, reel/8 mm tape
- Device Marking: B13
- Polarity Designator: Cathode Band
- Weight: 11.7 mg (approximately)

For more features, see the data sheet

### Part Electrical Specifications

Product	Compliance	Status	Configuration	$V_{RRM}$ Min (V)	$V_F$ Max (V)	$I_{RM}$ Max ( $\mu$ A)	$I_{O(Rec)}$ Max (A)	$I_{FSM}$ Max (A)	$t_f$ Max (ns)	$C_j$ Max (pF)	Package Type
MBR130T1G	Pb-free	Active	Single	30	0.45	60	1	5.5	-	-	SOD-123
	Halide free										
MBR130T3G	Pb-free	Active	Single	30	0.45	60	1	5.5	-	-	SOD-123
	Halide free										
NRVB130T1G	AEC Qualified	Active	Single	30	0.45	60	1	5.5	-	-	SOD-123
	PPAP Capable										
	Pb-free										
	Halide free										
NRVB130T3G	AEC Qualified	Active									SOD-123
	PPAP Capable										
	Pb-free										
	Halide free										

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