

## Product Overview

### MBRS340: Schottky Power Rectifier, Surface Mount, 3.0 A, 40 V

For complete documentation, see the data sheet.

The Schottky Rectifier employs the Schottky Barrier principle in a large area metal-to-silicon power diode. The Schottky Rectifier's state-of-the-art geometry features epitaxial construction with oxide passivation and metal overlay contact. 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

- Small Compact Surface Mountable Package with J-Bend Leads
- Rectangular Package for Automated Handling
- Highly Stable Oxide Passivated Junction
- Excellent Ability to Withstand Reverse Avalanche Energy Transients
- Guardring for Stress Protection
- Case: Epoxy, Molded
- Weight: 217 mg (approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead and Mounting Surface Temperature for Soldering Purposes: 260 C Max. for 10 Seconds
- Shipped in 16 mm Tape and Reel, 2500 units per reel

For more features, see the data sheet

### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Configuration	V <sub>RRM</sub> Min (V)	V <sub>F</sub> Max (V)	I <sub>RM</sub> Max (µA)	I <sub>O(rec) Max</sub> (A)	I <sub>FSM</sub> Max (A)	t <sub>rr</sub> Max (ns)	C <sub>j</sub> Max (pF)	Package Type
MBRS320T3G	0.1769	Pb-free	Active	Single	20	0.5	2000	3	80	-	-	SMC-2
		Halide free										
MBRS330T3G	0.1699	Pb-free	Active	Single	30	0.5	2000	3	80	-	-	SMC-2
		Halide free										
MBRS340	0.1672	Pb-free	Active	Single	40	0.5	2000	3	80	-	-	SMC
MBRS340T3G	0.1296	Pb-free	Active	Single	40	0.5	2000	3	80	-	-	SMC-2
		Halide free										
NRVBS330T3G	0.44	AEC Qualified	Active	Single	30	0.5	2000	3	80	-	-	SMC-2
		PPAP Capable										
		Pb-free										
		Halide free										
SBR8320T3G	0.418	AEC Qualified	Active	Single	20	0.5	2000	3	80	-	-	SMC-2
		PPAP Capable										
		Pb-free										
		Halide free										
SBR8340T3G	0.1951	AEC Qualified	Active	Single	40	0.5	2000	3	80	-	-	SMC-2
		PPAP Capable										
		Pb-free										
		Halide free										

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