



Product Overview

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

For complete documentation, see the data sheet

Product Description

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
- Mechanical Characteristics:
- 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

Part Electrical Specifications

Product	Compliance	Status	Configurat ion	V <sub>RRM</sub> Min (V)	V <sub>F</sub> Max (V)	I <sub>RM</sub> Max (uA)	I <sub>O(rec)</sub> Max (A)	I <sub>FSM</sub> Max (A)	t <sub>r</sub> Max (ns)	C <sub>j</sub> Max (pF)	Package Type
MBRS320T3G	AEC Qualified Pb-free Halide free	Active	Single	20	0.5	2000	3	80			SMC-2
MBRS330T3G	AEC Qualified Pb-free Halide free	Active	Single	30	0.5	2000	3	80			SMC-2
MBRS340T3G	AEC Qualified Pb-free Halide free	Active	Single	40	0.5	2000	3	80			SMC-2
NRVBS330T3G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	30	0.5	2000	3	80			SMC-2
SBRS8320T3G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	20	0.5	2000	3	80			SMC-2
SBRS8340T3G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	40	0.5	2000	3	80			SMC-2

