

## Product Overview

### NSR1030QMU: 1.0 A, 30 V, Schottky Diode Full Bridge Rectifier

For complete documentation, see the data sheet.

These full wave bridge, using Schottky barrier diodes, are designed for the rectification of the high speed signal of wireless charging. The NSR1030QMUTWG has a very low forward voltage that will reduce conduction loss. It is housed in a UDFN 3.0 x 3.0 x 0.5 mm package that is ideal for space constrained wireless phone applications.

#### Features

- Extremely Fast Switching Speed
- Low Forward Voltage - 490 mV (Typ) @ IF = 1 A
- These Devices are Pb-Free, Halogen Free and are RoHS Compliant

#### Benefits

- Supports high speed applications
- Improves efficiency during rectification

#### Applications

- Full wave Bridge Rectification

#### End Products

- Wireless Charging receivers

#### 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)</sub> Max (A)	I <sub>FSM</sub> Max (A)	t <sub>rr</sub> Max (ns)	C <sub>J</sub> Max (pF)	Package Type
NSR1030QMUTWG	0.1948	Pb-free Halide free non AEC-Q and PPAP	Active	Bridge	30	0.6	20	1	12	-	-	UDFN-4

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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