Product Overview

NSR1020MW2: 20 V, 1.0 A Low V_F Schottky Diode

For complete documentation, see the data sheet.

The Schottky Diode in the SOD-323 package offers extremely low Vf performance. The low forward voltage makes them capable of handling high current in a very small package. The resulting device is ideally suited for application as a blocking diode in charging applications or as part of discrete buck converter or discrete boost converter. As part of a buck conversion circuit, a boost conversion circuit or a charging circuit the low Vf drop of the Schottky improves the efficiency of the overall device by consuming less power in the forward mode.

Features

- Low Forward Voltage - 0.24 Volts (Typ) @ IF = 10 mAdc
- High Current Capability
- ESD Rating Human Body Model: CLASS 3B - Machine Model: C
- Pb-Free Package

Applications

- Ideally suited for application as a blocking diode in charging applications or as part of discrete buck converter or discrete boost converter.

Part Electrical Specifications

Product	Pricing ($/Unit)	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
NSR1020MW2T1G	0.0413	Pb-free Halide free	Active	Single	20	0.44	40	1	5	-	29	SOD-323
NSR1020MW2T1G-AU		Pb-free Halide free	Active	Single	20	0.44	40	1	5	-	29	SOD-323
NSR1020MW2T3G	0.0413	Pb-free Halide free	Active	Single	20	0.44	40	1	5	-	29	SOD-323
NSR1020MW2T3G-AU		Pb-free Halide free	Active	Single	20	0.44	40	1	5	-	29	SOD-323
NSVR1020MW2T1G	0.0616	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	20	0.44	40	1	5	-	29	SOD-323

For more information please contact your local sales support at www.onsemi.com.

Created on: 7/15/2020