

NSR1020MW2

1.0 A, 20 V, Low VF Schottky Diode

Product Overview

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	0.0328		Active	Single	20	0.44	40	1	5	-	29	SOD-323
NSR1020MW2T3G	0.0387		Active	Single	20	0.44	40	1	5	-	29	SOD-323
NSVR1020MW2T1G	0.066		Active	Single	20	0.44	40	1	5	-	29	SOD-323