

## Product Overview

### NSR05T40P2: Schottky Barrier Diode, 500 mA, 40 V

For complete documentation, see the data sheet.

These Schottky barrier diodes are optimized for low forward voltage drop and low leakage current that offers the most optimal power dissipation in applications. They are housed in space saving micro-packaging ideal for space constraint applications.

#### Features

- Low Forward Voltage Drop - 580 mV (Typ.) @  $I_F = 500$  mA
- Low Reverse Current - 2.0  $\mu$ A (Typ.) @  $V_R = 40$  V
- 500 mA of Continuous Forward Current
- High ESD Rating: HBM - Class 3B; CDM - Class IV
- High Switching Speed
- These Devices are Pb-Free, Halogen Free/BFR Free and RoHS Compliant

#### Benefits

- High Efficiency
- High Efficiency
- High Current Capability
- ESD Robust
- Less Switching Losses
- Environmentally Friendly

#### Applications

- LCD and Keypad Backlighting
- Camera Photo Flash
- Buck and Boost DC-DC Converters
- Reverse Voltage and Current Protection
- Clamping & Protection

#### End Products

- Smartphones
- Tablets
- Wearable Devices

### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Configuration	$V_{RRM}$ Min (V)	$V_F$ Max (V)	$I_{RM}$ Max ( $\mu$ A)	$I_{O(Rec)}$ Max (A)	$I_{FSM}$ Max (A)	$t_{rr}$ Max (ns)	$C_j$ Max (pF)	Package Type
NSR05T40P2T5G	0.0333	Pb-free Halide free	Active	Single	40	0.7	55	0.5	3	8	29	SOD-923-2

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

Created on: 4/10/2020