

## Product Overview

### NSR0340V2T1G: 40 V, 0.25 A Low $V_F$ SOD-523 Schottky Diode

For complete documentation, see the data sheet.

Schottky rectifiers are optimized for very low forward voltage drop and low leakage current and are used in a wide range of dc-dc converter, clamping and protection applications in portable devices. NSR0240V2 in a SOD-523 miniature package enables designers to meet the challenging task of achieving higher efficiency and meeting reduced space requirements.

### Features

- Very Low Forward Voltage Drop - 410 mV @ 100 mA
- Low Reverse Current - 0.5  $\mu$ A @ 25 V VR
- 250 mA of Continuous Forward Current
- Power Dissipation of 200 mW with Minimum Trace
- Very High Switching Speed
- Low Capacitance -  $C_T = 6$  pF
- This is a Pb-Free Device

### Applications

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

### End Products

- Mobile Handsets
- MP3 Players
- Digital Cameras and Camcorders
- Notebook PCs & PDAs
- GPS

### 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
NSR0340V2T1G	0.0533	Pb-free	Active	Single	40	0.51	1	0.25	1	5	6	SOD-523-2
		Halide free										
NSR0340V2T5G	0.0533	Pb-free Halide free	Active	Single	40	0.51	1	0.25	1	5	6	SOD-523-2

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

Created on: 7/8/2020