

## Product Overview

### NSR0240HT1G: 40 V, 0.25 A Low IR 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. NSR0240H in a SOD-323 miniature package enables designers to meet the challenging task of achieving higher efficiency and meeting reduced space requirements.

### Features

- Very Low Forward Voltage Drop - 480 mV @ 100 mA
- Low Reverse Current - 0.2 uA @ 25 V VR
- 250 mA of Continuous Forward Current
- Power Dissipation of 160 mW with Minimum Trace
- Very High Switching Speed
- Low Capacitance - CT = 4 pF
- This is a Pb-Free Device

### Applications

- LCD and Keypad Backlighting
- Camera Photo Flash
- Buck and Boost dc-dc Converters
- Reverse Voltage and Current Protection
- Clamping & 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 <sub>RRM</sub> Min (V)	V <sub>F</sub> Max (V)	I <sub>RM</sub> Max (μA)	I <sub>O(rec) Max</sub> (A)	I <sub>FSM</sub> Max (A)	t <sub>rr</sub> Max (ns)	C <sub>J</sub> Max (pF)	Package Type
NSR0240HT1G	0.0253	Pb-free	Active	Single	40	0.71	0.55	0.25	1	3	4	SOD-323
		Halide free										
NSVR0240HT1G	0.0587	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	40	0.71	0.55	0.25	1	3	4	SOD-323

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

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