

Product Overview

NSR15405NX: Schottky Barrier Diode, 1.5 A, 40 V

For complete documentation, see the data sheet.

These Schottky barrier diodes are optimized for low forward voltage drop and low leakage current and are offered in a Chip Scale Package (CSP) to reduce board space. The low thermal resistance enables designers to meet the challenging task of achieving higher efficiency and meeting reduced space requirements.

Features

- Low Forward Voltage Drop - 540 mV (Typ.) @ $I_F = 1.5$ A
- Low Reverse Current - 20 A (Typ.) @ $V_R = 40$ V
- 1.5 A of Continuous Forward Current
- ESD Rating - Human Body Model: Class 3B; Machine Model: Class C
- High Switching Speed
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant

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 | Compliance | Status | Configuration | V_{RRM} Min (V) | V_F Max (V) | I_{RM} Max (μ A) | $I_{O(rec)}$ Max (A) | I_{FSM} Max (A) | t_r Max (ns) | C_j Max (pF) | Package Type |
|---------------|-------------|--------|---------------|-------------------|---------------|-------------------------|----------------------|-------------------|----------------|----------------|--------------|
| NSR15405NXT5G | Pb-free | Active | Single | 40 | 0.59 | 75 | 1.5 | 13 | 33 | 85 | DSN-2 |
| | Halide free | | | | | | | | | | |

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

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