

Product Overview

NSS60200SMT: Single 60V 2A Low $V_{CE(sat)}$ PNP Transistor in WDFN6

For complete documentation, see the data sheet.

ON Semiconductor's e2PowerEdge family of low $V_{CE(sat)}$ transistors are miniature surface mount devices featuring ultra low saturation voltage ($V_{CE(sat)}$) and high current gain capability in a small form factor, 2x2mm plastic leadless package. These are designed for use in low voltage, high speed switching applications where affordable efficient energy control is important. In the automotive industry they can be used in air bag deployment and in the instrument cluster. The high current gain allows e2PowerEdge devices to be driven directly from PMU's control outputs, and the Linear Gain (Beta) makes them ideal components in analog amplifiers.

Features

- -2A IDC, -3A ICM
- NSV60200SMTWTBG - Wettable Flanks Packaged Device
- Low $V_{CE(sat)}$: -0.45V @ -2A IC, IC/IB= 10
- Beta of 80 @ -2ADC, VCE = -2V
- NSV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant

Benefits

- High Robustness
- Improved AOI Capability
- High Energy Efficiency
- High Gain Amplification

Applications

- High Side Switching
- Overvoltage Protection

End Products

- Automotive RCL and other lighting
- Automotive Airbag Deployment
- Automotive Instrument Clusters

Part Electrical Specifications

| Product | Pricing (\$/Unit) | Compliance | Status | Polarity | Type | $V_{CE(sat)}$ Max (V) | I_C Cont. (A) | V_{CEO} Min (V) | V_{CBO} (V) | V_{EBO} (V) | $V_{BE(sat)}$ (V) | $V_{BE(on)}$ (V) | h_{FE} Min | h_{FE} Max | f_T Min (MHz) | P_{TM} Max (W) | Package Type |
|-----------------|-------------------|---|--------|----------|-------------------|-----------------------|-----------------|-------------------|---------------|---------------|-------------------|------------------|--------------|--------------|-----------------|------------------|--------------|
| NSS60200SMTTBG | 0.172 | Pb-free Halide free | Active | PNP | Low $V_{CE(sat)}$ | 0.45 | 2 | 60 | 60 | 6 | 1.1 | 0.9 | 40 | - | 155 | 1.8 | WDFN-6 |
| NSV60200SMTWTBG | 0.18 | AEC Qualified PPAP Capable Pb-free Halide free | Active | PNP | Low $V_{CE(sat)}$ | 0.45 | 2 | 60 | 60 | 6 | 1.1 | 0.9 | 40 | - | 155 | 1.8 | WDFN-6 |

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

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