

## Product Overview

### NSBA143EDP6: Dual PNP Bipolar Digital Transistor (BRT)

For complete documentation, see the data sheet.

This series of digital transistors is designed to replace a single device and its external resistor bias network. The Bias Resistor Transistor (BRT) contains a single transistor with a monolithic bias network consisting of two resistors; a series base resistor and a base-emitter resistor. The BRT eliminates these individual components by integrating them into a single device. The use of a BRT can reduce both system cost and board space.

### Features

- Simplifies Circuit Design
- Reduces Board Space
- Reduces Component Count
- S and NSV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable
- These Devices are PbFree, Halogen Free/BFR Free and are RoHS Compliant

### Part Electrical Specifications

| Product        | Compliance             | Status | Polarity | $I_C$ Continuous (A) | $V_{BRICE0}$ Min (V) | $h_{FE}$ Min | R1 (k $\Omega$ ) | R2 (k $\Omega$ ) | R1/R2 Typ | $V_{i(off)}$ Max (V) | $V_{i(on)}$ Min (V) | Package Type |
|----------------|------------------------|--------|----------|----------------------|----------------------|--------------|------------------|------------------|-----------|----------------------|---------------------|--------------|
| NSBA143EDP6T5G | Pb-free<br>Halide free | Active | Dual PNP | 0.1                  | 50                   | 15           | 4.7              | 4.7              | 1         | 0.5                  | 3                   | SOT-963      |

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Created on: 9/16/2019