

Product Overview

DTA143EM3: 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
- 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_{BRICEO} Min (V) | h_{FE} Min | R1 (k Ω) | R2 (k Ω) | R1/R2 Typ | $V_{i(off)}$ Max (V) | $V_{i(on)}$ Min (V) | Package Type |
|-----------------|---|--------|----------|----------------------|----------------------|--------------|------------------|------------------|-----------|----------------------|---------------------|--------------|
| DTA143EM3T5G | Pb-free Halide free | Active | PNP | 0.1 | 50 | 15 | 4.7 | 4.7 | 1 | 0.5 | 3 | SOT-723-3 |
| NSVDTA143EM3T5G | AEC Qualified PPAP Capable Pb-free Halide free | Active | PNP | 0.1 | 50 | 15 | 4.7 | 4.7 | 1 | 0.5 | 3 | SOT-723-3 |

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

Created on: 5/19/2019