



## Product Overview

### NSS60601MZ4: Low $V_{CE(sat)}$ Transistor, NPN, 60 V, 6.0 A

For complete documentation, see the data sheet

#### Product Description

The combination of low saturation voltage and high gain makes this Bipolar Transistor an ideal device for high speed switching applications where power saving is a concern.

| Features   | Benefits  |
|--|---|
| <ul style="list-style-type: none"> <li>Low Collector-Emitter Saturation Voltage</li> <li>High DC Current Gain</li> <li>High Current-Gain Bandwidth Product</li> <li>Superior gain linearity</li> <li>NSV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AECQ101 Qualified and PPAP Capable</li> <li>These Devices are PbFree, Halogen Free/BFR Free and are RoHS Compliant</li> </ul> | <ul style="list-style-type: none"> <li>Minimized power loss</li> <li>Very low current requirements</li> <li>Ideal for high frequency designs</li> <li>Minimal distortion</li> </ul> |

| Applications  | End Products   |
|---|--|
| <ul style="list-style-type: none"> <li>Linear voltage regulation</li> <li>Power management for portable devices</li> <li>Switching regulator</li> <li>Inductive load driver (e.g. motors, fans, relays)</li> <li>Linear controls</li> </ul> | <ul style="list-style-type: none"> <li>Battery chargers</li> <li>Portable devices</li> <li>Computing products</li> </ul> |

#### Part Electrical Specifications

| Product        | Compliance  | Status | Polarity | $I_C$ Continuous (A) | $V_{BR(CEO)}$ Min (V) | $V_{CE(sat)}$ Max (V) | $h_{FE}$ Min | $h_{FE}$ Max | $f_T$ Min (MHz) | $P_{TM}$ Max (W) | Package Type         |
|----------------|---|--------|----------|----------------------|-----------------------|-----------------------|--------------|--------------|-----------------|------------------|----------------------|
| NSS60601MZ4T1G | AEC Qualified<br>Pb-free<br>Halide free                 | Active | NPN      | 6                    | 60                    | 0.06                  | 120          | 360          | 100             | 2                | SOT-223-4 / TO-261-4 |
| NSS60601MZ4T3G | AEC Qualified<br>Pb-free<br>Halide free                 | Active | NPN      | 6                    | 60                    | 0.06                  | 120          | 360          | 100             | 2                | SOT-223-4 / TO-261-4 |
| NSV60601MZ4T1G | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | NPN      | 6                    | 60                    | 0.3                   | 120          | 360          | 100             | 2                | SOT-223-4 / TO-261-4 |
| NSV60601MZ4T3G | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | NPN      | 6                    | 60                    | 0.3                   | 120          | 360          | 100             | 2                | SOT-223-4 / TO-261-4 |

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