

## Product Overview

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

For complete documentation, see the data sheet.

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

- Low Collector-Emitter Saturation Voltage
- High DC Current Gain
- High Current-Gain Bandwidth Product
- Superior gain linearity
- NSV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AECQ101 Qualified and PPAP Capable
- These Devices are PbFree, Halogen Free/BFR Free and are RoHS Compliant

#### Benefits

- Minimized power loss
- Very low current requirements
- Ideal for high frequency designs
- Minimal distortion

#### Applications

- Linear voltage regulation
- Power management for portable devices
- Switching regulator
- Inductive load driver (e.g. motors, fans, relays)
- Linear controls

#### End Products

- Battery chargers
- Portable devices
- Computing products

### Part Electrical Specifications

Product	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)	$h_{FE Min}$	$h_{FE Max}$	$f_T$ (MHz)	$P_{TM Max}$ (W)	Package Type
NSS60601MZ4T1G	Pb-free	Active	NPN	Low $V_{CE(sat)}$	0.06	6	60	100	6	0.9	0.9	120	360	100	2	SOT-223-4 / TO-261-4D
	Halide free															
NSS60601MZ4T3G	Pb-free	Active	NPN	Low $V_{CE(sat)}$	0.06	6	60	100	6	0.9	0.9	120	360	100	2	SOT-223-4 / TO-261-4D
	Halide free															
NSV60601MZ4T1G	AEC Qualified	Active	NPN	Low $V_{CE(sat)}$	0.3	6	60	100	6	0.9	0.9	120	360	100	2	SOT-223-4 / TO-261-4D
	PPAP Capable															
	Pb-free															
	Halide free															
NSV60601MZ4T3G	AEC Qualified	Active	NPN	Low $V_{CE(sat)}$	0.3	6	60	100	6	0.9	0.9	120	360	100	2	SOT-223-4 / TO-261-4D
	PPAP Capable															
	Pb-free															
	Halide free															

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

Created on: 10/16/2019