

The documentation and process conversion measures necessary to comply with this document shall be completed by 14 November 2019.

INCH-POUND

MIL-PRF-19500/384J
 14 August 2019
 SUPERSEDING
 MIL-PRF-19500/384H
 15 July 2014

PERFORMANCE SPECIFICATION SHEET

SEMICONDUCTOR DEVICE, TRANSISTOR, NPN, SILICON HIGH-POWER,
 TYPES 2N3584, 2N3585, JAN, JANTX, AND JANTXV

This specification is approved for use by all Departments
 and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of
 this specification sheet and [MIL-PRF-19500](#).

1. SCOPE

1.1 Scope. This specification covers the performance requirements for NPN, silicon, power transistors. Three levels of product assurance are provided for this device type as specified in [MIL-PRF-19500](#).

* 1.2 Package outlines. The device package for the encapsulated device type are as follows: (TO-66) in accordance with [figure 1](#).

1.3 Maximum ratings. $T_C = +25^\circ\text{C}$, unless otherwise specified.

| Type | P_T $T_A = +25^\circ\text{C}$ | P_T $T_C = +25^\circ\text{C}$ (1) | $R_{\theta JC}$ | V_{CBO} | V_{CEO} | V_{EBO} | V_{CER} | I_B | I_C | T_J and T_{STG} |
|--------|------------------------------------|---|--------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------------------------|
| | <u>W</u> | <u>W</u> | <u>$^\circ\text{C/W}$</u> | <u>V dc</u> | <u>V dc</u> | <u>V dc</u> | <u>V dc</u> | <u>A dc</u> | <u>A dc</u> | <u>$^\circ\text{C}$</u> |
| 2N3584 | 2.5 | 35 | 5.0 | 375 | 250 | 6.0 | 300 | 1.0 | 2.0 | -65 to +200 |
| 2N3585 | 2.5 | 35 | 5.0 | 500 | 300 | 6.0 | 400 | 1.0 | 2.0 | -65 to +200 |

(1) Derate linearly, 200 mW/ $^\circ\text{C}$ for $T_C > +25^\circ\text{C}$.

Comments, suggestions, or questions on this document should be addressed to DLA Land and Maritime, ATTN: VAC, P.O. Box 3990, Columbus, OH 43218-3990, or emailed to Semiconductor@dla.mil. Since contact information can change, you may want to verify the currency of this address information using the ASSIST Online database at <https://assist.dla.mil/>.

AMSC N/A

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