

The documentation and process conversion measures necessary to comply with this document shall be completed by 24 September 2019.

INCH-POUND

MIL-PRF-19500/582D  
24 June 2019  
SUPERSEDING  
MIL-PRF-19500/582C  
23 September 2015

## PERFORMANCE SPECIFICATION SHEET

\*

TRANSISTOR, PNP, SILICON AMPLIFIER,  
TYPES 2N5679 AND 2N5680, JAN, JANTX, JANTXV, JANHC AND JANKC

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 PNP, silicon, amplifier transistor. Three levels of product assurance (JAN, JANTX, and JANTXV) are provided for each device type as specified in [MIL-PRF-19500](#) and two levels of product assurance (JANHC and JANKC) are provided for unencapsulated devices.

\* 1.2 Package outlines. The device package outlines are as follows: in accordance with [figure 1](#) for 2N5679 and 2N5680. The dimensions and topography for unencapsulated die is as follows: A version die in accordance with [figure 2](#) and B version die in accordance with [figure 3](#).

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

Type	$P_T$ (1) $T_A = +25^\circ\text{C}$	$P_T$ $T_C = +25^\circ\text{C}$ (2)	$R_{\theta JC}$	$V_{CBO}$	$V_{CEO}$	$V_{EBO}$	$I_C$	$I_B$	$T_J$ and $T_{STG}$
	<u>W</u>	<u>W</u>	<u>°C</u>	<u>V dc</u>	<u>V dc</u>	<u>V dc</u>	<u>A dc</u>	<u>A dc</u>	<u>°C</u>
2N5679	1.0	10	17.5	-100	-100	-4.0	-1.0	-0.5	-65 to +200
2N5680	1.0	10	17.5	-120	-120	-4.0	-1.0	-0.5	

(1) Derate linearly 5.7 mW/°C for  $T_A > +25^\circ\text{C}$ .

(2) Derate linearly 57mW/°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](mailto: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

FSC 5961

