

The documentation and process conversion measures necessary to comply with this amendment shall be completed by 12 May 1996

INCH-POUND

MIL-S-19500/464B
AMENDMENT 1
12 February 1996

MILITARY SPECIFICATION

SEMICONDUCTOR DEVICE, TRANSISTOR, NPN, SILICON POWER
TYPES 2N5685 AND 2N5686, JANTX AND JANTXV

This amendment forms a part of MIL-S-19500/464B, dated 25 May 1994, and is approved for use by all Departments and Agencies of the Department of Defense.

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4.4.1, Delete "Electrical measurements (end-points) shall be in accordance with the applicable steps of table I, group A, subgroup 2 herein" and substitute: "Electrical measurements (end-points) shall be in accordance with the applicable steps of table II herein".

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4.4.2 Delete "Electrical measurements (end-points) shall be in accordance with the applicable steps of table I, group A, subgroup 2 herein" and substitute: "Electrical measurements (end-points) shall be in accordance with the applicable steps of table II herein".

4.4.3 Delete "Electrical measurements (end-points) shall be in accordance with the applicable steps of table I, group A, subgroup 2 herein" and substitute: "Electrical measurements (end-points) shall be in accordance with the applicable steps of table II herein".

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Table I, subgroup 5, conditions column; delete "See table I, subgroup 2" and substitute "See table II, steps 1 and 3".

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Following page 9 add the following table and footnotes:

" TABLE II. Groups A, B, and C electrical end-point measurements. 1/ 2/

Step	Inspection	MIL-STD-750		Symbol	Limits		Unit
		Method	Conditions		Min	Max	
1.	Collector to emitter cutoff current 2N5685 2N5686	3041	Bias condition A, $V_{BE} = 1.5$ V dc $V_{CE} = 60$ V dc $V_{CE} = 80$ V dc	I_{CEX1}		500	μ A dc
2.	Collector to emitter cutoff current 2N5685 2N5686	3041	Bias condition A, $V_{BE} = 1.5$ V dc $\lambda = +150^{\circ}$ C $V_{CE} = 60$ V dc $V_{CE} = 80$ V dc	I_{CEX2}		5	mA dc
3.	Forward-current transfer ratio	3076	$V_{CE} = 2.0$ V dc $I_C = 25$ A dc pulsed(see 4.5.1)	h_{FE2}	15	60	
4.	Forward-current transfer ratio	3076	$V_{CE} = 2.0$ V dc $I_C = 25$ A dc pulsed(see 4.5.1)	Δh_{FE2}	± 25 percent of initial value.		
5.	Thermal response	3131	$I_C = 25$ A dc,	V_{BE}			

1/ The electrical measurements for table IVb (JANTX and JANTXV) of MIL-S-19500 are as follows:

- a. Subgroup 2, see table II herein, steps 1 and 3.
- b. Subgroup 3, see table II herein, steps 2, 4, and 5.
- c. Subgroup 6, see table II herein, steps 2 and 4.

2/ The electrical measurements for table V of MIL-S-19500 are as follows:

- a. Subgroup 2, see table II herein, steps 1 and 3.
- b. Subgroup 3, see table II herein, steps 1 and 3.
- c. Subgroup 6, see table II herein, steps 2, 4, and 5."

CONCLUDING MATERIAL

Custodians:
Army - ER
Navy - EC
Air Force - 17

Preparing activity:
DLA - ES
(Project 5961-1802)

Review activities:
Army - MI
Air Force - 13, 19, 70, 80, 85, 99