

MILITARY SPECIFICATION

SEMICONDUCTOR DEVICE, TRANSISTOR, NPN, SILICON, SWITCHING, LOW-POWER

TYPE 2N706

This amendment forms a part of Military Specification MIL-S-19500/120C, dated 15 April 1970, and is approved for use by all Departments and Agencies of the Department of Defense.

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3.3.1, delete and substitute:

"3.3.1 Lead material and finish. Lead material shall be Kovar or Alloy 52. Lead finish shall be gold or tin-plated. Where a choice of lead material and finish is desired, it shall be specified in the contract or order (see 6.2)."

3.3.1.1, delete.

3.5, delete and substitute:

"3.5 Marking. The following marking specified in MIL-S-19500 may be omitted from the body of the transistor at the option of the manufacturer:

- (a) Country of origin
- (b) Manufacturer's identification."

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TABLE 1, group A inspection, subgroup 3, Open-circuit output capacitance test: Delete minimum limit.

TABLE 1, group A inspection, subgroup 4, Charge-storage time test: Delete minimum limit.

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TABLE 11, group B inspection, subgroup 3, examination or test column, constant acceleration test, delete and substitute:

"Constant acceleration  
(This test applies only when bonding wire other than aluminum is used)"

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TABLE II, group B inspection, subgroup 4, Endpoints, under details, delete and substitute: "Test cond. G or H for fine leaks; test cond. A, B, C, D or F for gross leaks".

TABLE III, group C inspection, subgroup 1, under "Thermal shock (temperature cycling)": Add "End points: (Same as subgroup 2 of group B)".

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TABLE III, group C inspection, subgroup 4, under LTPD column, add " $\lambda = 10$ ". Under symbol column, delete " $\lambda = 10$ ".

6.2, delete and substitute:

"6.2 Ordering data. Procurement documents should specify the following:

Lead material and finish (see 3.3.1)."

NOTE: The margins of this amendment are marked with asterisks to indicate where changes from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

Custodians:

Army - EL  
Navy - EC  
Air Force - 17

Preparing activity:

Army - EL

Agent:

DSA - ES

Review activities:

Army - MI, MU  
Air Force - 11, 19, 80, 85  
DSA - ES  
NASA - NA

(Project 5961-0614)

User activities:

Army - AV, SM  
Navy - AS, CG, MC, OS, SH  
Air Force - 13, 15