

The documentation and process conversion measures necessary to comply with this amendment shall be completed by 21 June 1999

INCH-POUND

MIL-PRF-19500/394D
AMENDMENT 1
21 March 1999

PERFORMANCE SPECIFICATION SHEET

SEMICONDUCTOR DEVICE, TRANSISTOR, NPN, SILICON, POWER SWITCHING
TYPES: 2N4150, 2N5237, 2N5238, 2N4150S, 2N5237S, AND 2N5238S
JAN, JANTX, JANTXV, AND JANS

This amendment forms a part of MIL-PRF-19500/394D, dated 20 December 1998, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 3

3.1, Qualification, second line; delete "products" and substitute "manufacturer's".

3.4.2; delete and substitute as follows:

"3.4.2 Construction. These devices shall be constructed in a manner and using materials which enable the devices to meet the applicable requirements of MIL-PRF-19500 and this document."

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Figure 1, note 4; delete "Load" and substitute "Lead".

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4.3.1; delete " $V_{CB} = 10 \text{ V dc}$, $P_T = 1.0 \text{ mW}$ " and substitute " $V_{CB} = 10 - 30 \text{ V dc}$, $P_T = 1.0 \text{ W}$ " .

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4.4.2.1, subgroups B4 and B5; delete " $V_{CB} = 10 \text{ V dc}$ " two places and substitute " $V_{CB} = 10 - 30 \text{ V dc}$ " two places.

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4.4.3.1 subgroup C6; delete " $V_{CB} = 10 \text{ V dc}$ " and substitute " $V_{CB} = 10 - 30 \text{ V dc}$ ".

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4.5.3; step 1, conditions column; delete " $V_{CB} = 50 \text{ V dc}$ " and substitute " $V_{CB} = 80 \text{ V dc}$ ".

Table I, subgroup 2, emitter to base cutoff current, conditions column; delete " $I_E = 10 \mu A$ dc".

Table I, subgroup 2, collector to emitter cutoff current, conditions column for 2N4150, 2N4150S; delete " $V_{CE} = 100$ V dc" and substitute " $V_{CE} = 60$ V dc".

Table I, subgroup 3, collector to emitter cutoff current; delete entire test and substitute as follows:

| | | | | | |
|-------------------------------------|------|--|------------|-----|------------|
| Collector to emitter cutoff current | 3041 | Bias condition A, $V_{BE} = -0.5$ V dc | I_{CEX2} | 100 | μA dc |
| 2N4150, 2N4150S | | $V_{CE} = 60$ V dc | | | |
| 2N5237, 2N5237S | | $V_{CE} = 110$ V dc | | | |
| 2N5238, 2N5238S | | $V_{CE} = 160$ V dc | | | |

Table I, subgroup 4, Storage time, unit column: delete "ns" and substitute " μs ".

6.3; delete and substitute as follows:

"6.3 Qualification. With respect to products requiring qualification, awards will be made only for products which are, at the time of award of contract, qualified for inclusion in Qualified Manufacturer's List QML No.19500 whether or not such products have actually been so listed by that date. The attention of the contractors is called to these requirements, and manufacturers are urged to arrange to have the products that they propose to offer to the Federal Government tested for qualification in order that they may be eligible to be awarded contracts or purchase orders for the products covered by this specification. Information pertaining to qualification of products may be obtained from Defense Supply Center Columbus, ATTN: DSCC-VQE, 3990 East Broad Street, Columbus, OH 43216-5000."

Concluding material; delete and substitute as printed herein.

Custodians:
Army - CR
Navy - EC
Air Force - 11

Preparing activity:
DLA - CC
(Project 5961 - 2112)

Review activities:
Army - MI, SM
Air Force - 13, 19, 99