MILITARY SPECIFICATION
SEMICONDUCTOR DEVICE, TRANSISTOR TYPES
2N962 and 2N964

This amendment forms a part of Military Specification
MIL-S-19500/258A(EC), dated 22 June 1964, and is approved
for use by Naval Electronic Systems Command, Department
of the Navy, and is available for use by all Departments
and Agencies of the Department of Defense.

PAGE 1

1.4, First column: delete "Max" and substitute "Min". Also hFE column:
Delete "V CE = -0.3" and substitute "V CE = -0.3 Vdc". Also V CE (sat)
column: delete "Ic" and "Ib" and substitute "Ic" and "Ib" respectively
(two places).

PAGE 2

3.4.1: Delete

* 4.1: Delete and substitute:

"4.1 Qualification inspection. Qualification inspection shall not
be required. First article inspection shall be required."

* 4.2.1: Delete and substitute:

"4.2.1 Group A inspection. Group A inspection shall consist of the
examinations and tests shown in table I on a 100% basis."

PAGE 3

4.7.3: Delete and substitute:

"4.7.3 Shock. The shock testing apparatus shall be capable of providing
shock pulses of the specified peak acceleration, waveform, and pulse
duration to the body of the device. The acceleration pulse, as
determined from the unfiltered output of a transducer with a natural
frequency greater than 10,000 cycles per second, shall be a half sine
waveform with an allowable distortion not greater than ± 20 percent of
the specified peak acceleration. The pulse duration shall be measured
between the points at 10 percent of the peak acceleration during rise
and at 10 percent of the peak acceleration during decay. Absolute
tolerance of the pulse duration shall be ± 40 percent of the specified
duration."
* Table I, LTPD and MIN, REJ. NO. columns: Delete. Make this same change on pages 5, 6, and 7.

Table I, subgroup 4, Small-signal short circuit forward-current transfer ratio, MIL-STD-750 METHOD column: Delete "3206" and substitute "3306".

Table I, subgroup 5, Storage plus fall time (second listing), conditions column: Delete "$V_{BE(0)} = 1.25 \text{ mAdc}$" and substitute "$V_{BE(0)} = 1.25 \text{ Vdc}$"; Max limits column: Delete "180" and substitute "100".

Table II, subgroup 3, shock test, conditions column: Add "Pulse duration = 0.5 ms".

Table II, End points for subgroups 2, 3, 5, 6, and 7, Static forward-current transfer ratio, conditions column: Delete $I_C = 10\text{ mAdc}$ and substitute $I_C = -10\text{ mAdc}$.

Figure 1, note 2, delete and substitute:

"2. Maximum diameter leads at a gaging plane 0.054 ±0.001, -0.000 below the base seat to be within 0.007 of their true location relative to maximum width of and to the maximum 0.230 diameter measured with a suitable gage. When gage is not used, measurement will be made at base seat."
MIL-S-19500/258A(EC)
AMENDMENT 4

The margins of this amendment are marked with an asterisk to indicate where changes (additions, modifications, corrections, deletions) 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.

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