MILITARY SPECIFICATION

SEMICONDUCTOR DEVICE, TRANSISTOR, PNP, GERMANIUM
TYPES 2N1553A through 2N1556A

This amendment forms a part of Military Specification MIL-S-19500/331A(EL)
dated 8 February 1971 and is approved for use by all Departments and
Agencies of the Department of Defense.

Figure 2: Bias resistor; change "9.9 " to "0-50 ".

Figure 3: Remove and substitute the attached Figure 3.

Figure 4: Remove and substitute the attached Figure 4.

Custodian:
Army-EL

Preparing Activity
Army-EL
Project Nr. 5961-A582
FSC--5961
SAFE OPERATING AREAS

FIGURE 3 Safe operating Area curves.
**TEST NO. 1**

<table>
<thead>
<tr>
<th>$R_1$</th>
<th>$V_{AB}$</th>
<th>$V_{CC}$</th>
</tr>
</thead>
<tbody>
<tr>
<td>2N1553A 1N, 50W</td>
<td>21.5V 57V</td>
<td>20V, 20V</td>
</tr>
<tr>
<td>2N1554A 1N, 50W</td>
<td>22.5V 56.5V</td>
<td>20V, 20V</td>
</tr>
<tr>
<td>2N1555A 1N, 50W</td>
<td>21.5V 67V</td>
<td>20V, 20V</td>
</tr>
<tr>
<td>2N1556A 1N, 50W</td>
<td>21.5V 67V</td>
<td>50V, 20V 15.6V 81V</td>
</tr>
</tbody>
</table>

$V_{CC}$ and $V_{AB}$ are regulated power supplies (± 1% both line and load.)

$R_2$ is 0.1Ω non-inductive 2-watt. A current probe may be used in lieu of this sense resistor.

$*$ Adjustment will be necessary to set the exact current and voltage points specified in Test 1, 2 and 3.

**TEST NO. 3**

A D.C. regulated supply is connected to points A, B (minus to point "A").

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Figure 4. Safe area Test circuit