TABLE 1

ELECTRICAL CHARACTERISTICS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>CONDITIONS</th>
<th>SYMBOL</th>
<th>LIMITS</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZENER VOLTAGE</td>
<td>$I_Z = \pm 37, \text{mA}$</td>
<td>$V_Z$</td>
<td>9.5</td>
<td>10.5 \text{ VOLTS}</td>
</tr>
<tr>
<td>ZENER IMPEDANCE</td>
<td>$I_Z = \pm 37, \text{mA}$</td>
<td>$Z_I$</td>
<td>5</td>
<td>\text{ OMPS}</td>
</tr>
<tr>
<td></td>
<td>$I_Z = \pm 0.25, \text{mA}$</td>
<td>$Z_I$</td>
<td>700</td>
<td>\text{ OMPS}</td>
</tr>
<tr>
<td>LEAKAGE CURRENT</td>
<td>$I_L = \pm 7.4, \text{mA}$</td>
<td>$I_L$</td>
<td>5</td>
<td>\text{ MICROMETERS}</td>
</tr>
<tr>
<td>ZENER VOLTAGE CHANGE</td>
<td>$I_Z = \pm 0.25, \text{mA}$</td>
<td>$Z_V$</td>
<td>8.7</td>
<td>0.5 \text{ VOLTS}</td>
</tr>
</tbody>
</table>

(1) JUNCTION AND STORAGE TEMPERATURE: -65°C to +175°C.
(2) THERMAL RESISTANCE: 1°C/W JUNCTION TO AMBIENT.
(3) TEMPERATURE COEFFICIENT: 5.5 \text{ mV/°C}.

2. ACCEPTANCE AND INSPECTION:

A. MECHANICAL CHARACTERISTICS:

(1) MARKING: DIODES SHALL BE MARKED IN ACCORDANCE WITH MIL-S-19500 WITH THE JEDIC TYPE NUMBER AND POLARITY.

B. LEAD MATERIAL: LEAD MATERIAL SHALL BE IRON-NICKEL ALLOY (DUMET) IN ACCORDANCE WITH MIL-STD-129.

C. TERMINAL STRENGTH: EACH LEAD SHALL BE CAPABLE OF WITHSTANDING A LEAD TENSION TEST IN ACCORDANCE WITH MIL-STD-750, METHOD 2036, TEST CONDITION A, WITH A STRAIGHT AXIAL PULL OF FOUR (4) POUNDS MINIMUM FOR ONE (1) MINUTE.

D. UNITS SHALL BE CAPABLE OF WITHSTANDING A LEAD TENSION TEST IN ACCORDANCE WITH MIL-STD-750, METHOD 2036, TEST CONDITION A, WITH A STRAIGHT AXIAL PULL OF FOUR (4) POUNDS MINIMUM FOR ONE (1) MINUTE.

E. UNITS SHALL MEET ALL REQUIREMENTS OF TABLE I AFTER BURN-IN.

3. DESIGN:

A. ABSOLUTE MAXIMUM RATINGS:

(1) ZENER CURRENT: 125 MILLIAMPERES DC.

(2) D.C. POWER DISSIPATION: 1.5 WATTS AT CASE TEMP OF 25°C.

4. BURN IN:

A. UNITS SHALL BE BURNED IN FOR A PERIOD OF 240 HOURS AT 300 MILLIWATTS POWER DISSIPATION.

PROCESS ONLY FROM APPROVED SOURCES LISTED IN 1006701 FOR THIS DRAWING.