GENERAL REQUIREMENTS:

1. UNITS SHALL MEET THE GENERAL REQUIREMENTS OF MIL-STD-19500 FOR MATERIALS, QUALITY & WORKMANSHIP.

2. THE SPECIFIED LEAD DIAMETER APPLIES TO THE ZONE BETWEEN .050 AND .250 FROM THE CASE SEAT. BETWEEN .250 AND THE END OF LEAD & MAXIMUM OF .250 IS HELD. OUTSIDE OF THESE ZONES THE LEAD DIAMETER IS NOT CONTROLLED.

3. MAXIMUM DIAMETER LEADS AT A GAGING PLANE .250 BELOW CASE SEAT TO BE WITHIN .007 OF THEIR TRUE LOCATION RELATIVE TO MAX. WIDTH TAB AND TO THE MAXIMUM .250 DIAMETER MEASURED WITH A SUITABLE GAGE. WHEN GAGE IS NOT USED, MEASUREMENT WILL BE MADE AT SEATING PLANE.

4. INDEX TAB FOR VISUAL ORIENTATON ONLY.

5. MEASURE FROM MAX. DIAMETER OF THE ACTUAL DEVICE.

6. LEAD MATERIAL: GOLD PLATED IRON-NICKEL-COBALT-ALLOY IN ACCORDANCE WITH ND1015402.

7. PIN 4 ELECTRICALLY CONNECTED TO CASE.

8. C RESISTANCE BETWEEN PIN 7 & 8 SHALL BE 530 OHMS MIN.

9. AVERAGE PROPAGATION DELAY SHALL BE 35 NANOSECONDS MAX. AND SHALL BE MEASURED AS ILLUSTRATED ON SHEET 2.

10. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

11. UNIT SHALL BE ELECTRICALLY TESTED IN ACCORDANCE WITH TABLE 1.

A. WAIVE AS REQUIRED ALL INFORMATION PREP'TED ON THIS DRAWING EXCEPT LEAD MATERIAL SPEC. & PHYSICAL DIMENSIONS.

B. UPON SPECIFIC INSTRUCTION BY (TD) TECHNICAL DIRECTIVE PROCURER AS PART OF CHANGE LETTERED BY ORDERING TO VENDOR CATALOG NO. & SPECIFICATIONS. REFERENCE ND 100234.

C. DISREGARD THIS NOTE IN ITS ENTIRETY IF NOT REFERENCE IS MADE TO THIS DRAWING.

REPLACED WITH CHANGE BY REV F
TABLE I

DESIGN PARAMETERS 25°C AMBIENT (UNLESS OTHERWISE SPECIFIED)

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>MIN</th>
<th>MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASE CURRENT $I_1$</td>
<td>785 ±20 mV</td>
<td>785 ±10 mV</td>
<td>785 ±20 mV</td>
<td>785 ±10 mV</td>
<td>785 ±20 mV</td>
<td>785 ±10 mV</td>
<td>1.0 V</td>
<td>0.3 V</td>
<td>0.350 m</td>
<td>0.350 m</td>
</tr>
<tr>
<td>BASE CURRENT $I_2$</td>
<td>785 ±20 mV</td>
<td>785 ±10 mV</td>
<td>785 ±20 mV</td>
<td>785 ±10 mV</td>
<td>785 ±20 mV</td>
<td>785 ±10 mV</td>
<td>1.0 V</td>
<td>0.3 V</td>
<td>0.350 m</td>
<td>0.350 m</td>
</tr>
<tr>
<td>OUTPUT VOLTAGE PIN 7</td>
<td>OPEN</td>
<td>OPEN</td>
<td>OPEN</td>
<td>OPEN</td>
<td>OPEN</td>
<td>OPEN</td>
<td>0 V</td>
<td>3.00 V</td>
<td>0.350 V</td>
<td>0.350 V</td>
</tr>
<tr>
<td>OUTPUT VOLTAGE PIN 7</td>
<td>OPEN</td>
<td>OPEN</td>
<td>OPEN</td>
<td>OPEN</td>
<td>OPEN</td>
<td>OPEN</td>
<td>0 V</td>
<td>3.00 V</td>
<td>0.350 V</td>
<td>0.350 V</td>
</tr>
<tr>
<td>OUTPUT VOLTAGE PIN 7</td>
<td>OPEN</td>
<td>OPEN</td>
<td>OPEN</td>
<td>OPEN</td>
<td>OPEN</td>
<td>OPEN</td>
<td>0 V</td>
<td>3.00 V</td>
<td>0.350 V</td>
<td>0.350 V</td>
</tr>
<tr>
<td>OUTPUT CURRENT AT PIN 7</td>
<td>540 ±1 mV</td>
<td>540 ±2 mV</td>
<td>540 ±1 mV</td>
<td>540 ±2 mV</td>
<td>785 ±10 mV</td>
<td>785 ±20 mV</td>
<td>1.0 V</td>
<td>0.3 V</td>
<td>0.350 m</td>
<td>0.350 m</td>
</tr>
<tr>
<td>SATURATION VOLTAGE</td>
<td>0 V</td>
<td>0 V</td>
<td>0 V</td>
<td>0 V</td>
<td>0 V</td>
<td>0 V</td>
<td>0 V</td>
<td>0 V</td>
<td>3.00 V</td>
<td>0.350 V</td>
</tr>
<tr>
<td>SATURATION VOLTAGE</td>
<td>0 V</td>
<td>0 V</td>
<td>0 V</td>
<td>0 V</td>
<td>0 V</td>
<td>0 V</td>
<td>0 V</td>
<td>0 V</td>
<td>3.00 V</td>
<td>0.350 V</td>
</tr>
<tr>
<td>LEAKAGE CURRENT ICBO</td>
<td>OPEN</td>
<td>OPEN</td>
<td>OPEN</td>
<td>OPEN</td>
<td>OPEN</td>
<td>OPEN</td>
<td>0 V</td>
<td>1.0 m</td>
<td>0.350 V</td>
<td>0.350 V</td>
</tr>
<tr>
<td>Emitter Base Reverse Current ICBO</td>
<td>GND</td>
<td>GND</td>
<td>GND</td>
<td>GND</td>
<td>GND</td>
<td>GND</td>
<td>0 V</td>
<td>1.0 m</td>
<td>0.350 V</td>
<td>0.350 V</td>
</tr>
<tr>
<td>Collector Cutoff Current ICBO</td>
<td>GND</td>
<td>GND</td>
<td>GND</td>
<td>GND</td>
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<td>GND</td>
<td>0 V</td>
<td>1.0 m</td>
<td>0.350 V</td>
<td>0.350 V</td>
</tr>
</tbody>
</table>

TABLE II

MAXIMUM RATINGS AT 25°C

- Maximum Voltage to Pin B: 48.0 Volts
- Maximum Voltage Applied to ANY INPUT PIN: 48.0 Volts
- Storage Temperature: -65°C to 150°C
- Operating Temperature: 0°C to 70°C
- Fan Out of 5 with Fan in of 3
- Nominal Dissipated Power Per Unit: 15 mW

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00007 DATE

LOGIC SYMBOL

© REPLACED BY REV H WITH CHANGE

THIS SHEET ADDED REV C

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

MICRO-NOR GATE
(TO 47 SIZE)

SPECIFICATION CONTROL DRAWING

NASA DRAWING NO. 1006771

REVISIONS

C REVISI ON & REVISION PER TECHNICAL ORDER 12/22/2014
B REVISIO N PER TECHNICAL ORDER 06/08
E REPLACED BY REV H WITH CHANGES PER TECHNICAL ORDER 06/24/15

INCHES

PHOTOGRAPHIC SCALE ONLY