NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR OTHERWISE SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

NOTES:

1. REQUIREMENTS:
   A. THIS DEVICE SHALL MEET THE MATERIAL AND WORKMANSHIP REQUIREMENTS OF MIL-S-19500.
   B. LEAD MATERIAL SHALL BE IN ACCORDANCE WITH NASA DOCUMENT PS 1015402 EXCEPT LEAD DIAMETERS SHALL BE AS FOLLOWS:
      (1) THE LEAD DIAMETER IN THE ZONE BETWEEN .050 AND .250 FROM THE BASE SEAT SHALL BE .016 PLUS .003 MINUS .000; IN THE ZONE BETWEEN .250 AND 1.5 FROM THE BASE SEAT SHALL BE .021 MAX., AND IN ALL OTHER ZONES SHALL BE UNCONTROLLED.
   C. UNITS SHALL BE HERMETICALLY SEALED IN A METAL CASE.
   D. UNITS SHALL MEET THE TEST REQUIREMENTS AS SPECIFIED IN N0 600207.
   E. QUALITY ASSURANCE PROVISIONS SHALL BE IN ACCORDANCE WITH NASA DOCUMENT NO 1015404 SECTION T.
   F. PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE WITH MIL-S-19491.

2. EXPLANATORY NOTES FOR SCHEMATIC:
   A. R* IS THE Emitter Degeneration Required To Balance The D.C. Collector Voltages Of T1 AND T2 AND TO GET THE REQUIRED DIFFERENTIAL GAIN.
   B. VY IS ADJUSTABLE TO SET SENSING THRESHOLD, -4V ≤ VY ≤ 4V
   C. AN EXTERNAL RESISTOR MIGHT BE ADDED AT THIS POINT TO MATCH SENSE AMPLIFIERS IF ANALYSIS SHOWS IT TO BE NECESSARY.
   D. VZ AND ITS ACCOMPANYING 100 OHM RESISTORS MAY NOT BE USED ON SOME SENSE AMPLIFIERS; WHEN THEY ARE SPECIFIED TO BE USED THEY WILL BE CONNECTED AS SHOWN BY THE DOTTED LINES.

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

4. WAIVE AS REQUIRED ALL INFORMATION PRESENTED ON THIS DRAWING EXCEPT LEAD MATERIAL SPECIFICATION AND PHYSICAL DIMENSIONS.
   B. UPON SPECIFIC INSTRUCTION BY SDI TECHNICAL DIRECTIVE PROCURE THIS PART AS CHANGE LETTER C BY ORDERING TO VENDOR CATALOG NO. & SPECIFICATIONS REFERENCE NO 1002034.
   C. DISREGARD THIS NOTE IN ITS ENTIRETY IF REFERENCE IS MADE TO THIS DRAWING BY OTHER THAN REVISION LETTER C.

FOR INFORMATION ONLY
CLASS B RELEASE TDR No. 00065
DATE 11-8-62

FOR SOURCE OF SUPPLY SEE QUALIFIED VENDOR LIST NO 1006769

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SEMICONDUCTOR DEVICE, SENSE AMPLIFIER
SPECIFICATION CONTROL DRAWING

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