REVISIONS 9750101 RELATED GOVERNMENT PROCUREMENT OPERATION. THE UNITED STATES GOVERN DESCRIPTION DATE APPROVAL MENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER: AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY 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. TAKEN FROM BUWEPS DWG C2318944 SEE SHEET 2 NOTES: 00513 GENERAL REQUIREMENTS FOR EACH SECTION, UNLESS OTHERWISE SPECIFIED. REVISED PER TDRR A. UNIT SHALL BE IN ACCORDANCE WITH MIL-S-19500, IN ADDITION TO THE REQUIREMENTS SPECIFIED HEREIN. ABSOLUTE MAXIMUM RATINGS AT 25 ± 3 DEGREES CENTIGRADE, (AMBIENT): COLLECTOR TO EMITTER VOLTAGE (VCEO): 60 VOLTS DC. COLLECTOR TO EMITTER VOLTAGE (VCER): 80 VOLTS DC (RBE < 101). COLLECTOR TO BASE VOLTAGE (VCBO): - 100 VOLTS DC. EMITTER TO BASE VOLTAGE (VEBC): 7 VOLTS DC. POWER DISSIPATION: (EACH SECTION) AT 25°C CASE TEMPERATURE: 1.5 WATTS. AT 100°C CASE TEMPERATURE: 860 MILLIWATTS. AT 25°C AMBIENT TEMPERATURE: 500 MILLIWATTS. POWER DISSIPATION (DUAL) TOTAL: AT 25°C CASE TEMPERATURE: 3 WATTS. AT 100°C CASE TEMPERATURE: 1.7 WATTS. AT 25°C AMBIENT TEMPERATURE: 600 MILLIWATTS. FOR INFORMATION ONLY C. TEMPERATURE RANGE: STORAGE: MINUS 65 TO PLUS 200 DEGREES CENTIGRADE. OPERATING JUNCTION: PLUS 200 DEGREES CENTIGRADE, MAX. CLASS B RELEASE TDR No. 00162 12.12.62 D. ELECTRICAL CHARACTERISTICS: PER TABLE I AND II. TTPD: AS SPECIFIED HEREIN WITH MAXIMUM ACCEPTANCE NUMBER 3 PER MIL-S-19500. TEST DATA SHALL BE FURNISHED UPON REQUEST. ORDERS SHALL BE FILLED FROM ONE MANUFACTURING LOT, HOWEVER, ORDERS WHICH ARE GREATER THAN ONE MANUFACTURING LOT MAY BE FILLED FROM ADDITIONAL LOTS. SUPPLIER SHALL CONFORM WITH THE QUALITY ASSURANCE PROVISIONS OF ND1015404 SECTION_. .335 2. CONSTRUCTION REQUIREMENTS: A. SEMICONDUCTOR: SILICON, NPN, DOUBLE-DIFFUSED, REV-C B. CASE: METAL, SUITABLY PROTECTED TO WITHSTAND ENVIRONMENTAL REQUIREMENTS. REV-A REV-A REV-LEADS: SIX (6), SOLDERABLE, FLEXIBLE AND WELDABLE SOLID "KOVAR" CONDUCTORS, SHEET 2 SHEET 3 GREASE AND OIL FREE; GOLD FLASHED PER ND PS1015402. REVISION STATUS OF SHEETS 1.500 MIN A CERT!FICATE OF COMPLIANCE FOR LEAD MATERIAL SHALL ACCOMPANY EACH LOT SHIPPED. EACH LEAD SHALL WITHSTAND AN AXIAL PULL OF FOUR (4) POUNDS MINIMUM. D. HEADER: SHALL BE HERMETICALLY (GLASS-KOVAR) SEALED AND IMPERVIOUS TO LIGHT. EMITTER-1-MARKING: PER MIL-S-19500 AND SHALL INCLUDE THE MANUFACTURER'S NAME AND OR SYMBOL, DATE CODE, BASE-1 AND TYPE NUMBER. THE NASA NO. SHALL APPEAR ON EACH INTERIOR AND EXTERIOR SHIPPING CONTAINER -EMITTER-2 40° AS WELL AS ON A TAG TO BE INCLUDED IN EACH SHIPPING CONTAINER. 3. ENVIRONMENTAL REQUIREMENTS: SHALL MEET THE REQUIREMENTS OF ND 1002000 4. PULSE CONDITIONS: WIDTH =300u sec; DUTY CYCLE < 1%. COLLECTOR-1 → BASE-2 5. LOWEST VALUE OF HE SHALL BE HET (NUMERATOR). 6. ABSOLUTE VALUES: VALUES SHOWN IN PARENTHESES IN TABLES, ARE APPLICABLE ONLY FOR 1010376-3. - COLLECTOR-2 7. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. ∠.045 MAX ORIGINAL SOURCE OF SUPPLY: FAIRCHILD SEMICONDUCTOR CORP. 545 WHISMAN ROAD PART OR NOMENCLATURE OR MOUNTAIN VIEW, CALIFORNIA IDENTIFYING NO. DESCRIPTION TYPE NO. SP-8126 LIST OF MATERIALS TYPE NO. SP8127 1010376-2 UNLESS OTHERWISE SPECIFIED MANNED SPACECRAFT CENTER INSTRUMENTATION LAB SAME AS 1010376-1 EXCEPT, SUBSTITUTE FOR hie (1kc) DIMENSIONS ARE IN INCHES HOUSTON, TEXAS REQUIREMENTS; bfe=80 TO 120 AT VCE=5V; IC=1nA; f=1kc: TA=25°C TOLERANCES ON FRACTIONS DECIMALS ANGLES DRAWN Ray Wheele DATE 3 Dec 62 1010376-3 TYPE NO. SP-8143 SEMICONDUCTOR DEVICE, TRANSISTOR, CHECKED S. M. Sleeper 6 DEC 62 SAME AS 1010376-1, EXCEPT FOR ADDITIONAL REQUIREMENTS: DO NOT SCALE THIS DRAWING APPROVAL D Cushman 10 Dx 62 SILICON, DUALSECTION hFE=75 TO 125 AT VCE=10V: IC=300uA: TA=25°C. (SEE NOTE 6) MATERIAL APPROVAL . 1010376-4 TYPE NO. (TO BE ASSIGNED) SPECIFICATION CONTROL DRAWING SEE NOTE 2 SAME AS 1010376-1, EXCEPT hFE=50 MIN AT IC=5mA, VCE=1 V AND HEAT TREATMENT CODE IDENT NO. SIZE NASA DRAWING NO. NASA APPROVAL W & Rhine BVCEO=80 V MIN AT IC=10 mA. NONE 1010376 12-12-62 CONTINUED ON SHEET 2 **NEXT ASSY** USED ON FINAL FINISH MIT APPROVAL WIKELIJIEL SCALE NONE WT NONE **APPLICATION** OF **3** SHEET INCHES

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