REVISIONS REPLACES REVE WITH CHANGES AND UPGRADED TO
CLASS A RELEASE PER TDRR DM75 WK 4. SPECIAL CONDITIONING BY SUPPLIER: REVISED PER TDRR 04250 A. BURN-IN: UNITS SHALL BE BURNED-IN FOR 240 HOURS AT REQUIREMENTS: THE FOLLOWING CONDITIONS: GENERAL: 1. AMBIENT TEMPERATURÉ: 25° ± 5°C A. INTERPRET DRAWING. IN ACCORDANCE WITH STANDARDS PRESCRIBED 2. COLLECTOR VOLTAGE VCE: 45 ± 5 VDC PER ELEMENT BY MIL-D-70327. 3. POWER DISSIPATION: 150 MW ± 10% PER ELEMENT B. SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS B. THE MANUFACTURER SHALL DETERMINE AND RECORD THE FOLLOWING SPECIFIED IN ND 1015404, CLASS 1 ELECTRICAL CHARACTERISTICS PRIOR TO AND FOLLOWING BURN-C. UNITS SHALL BE CAPABLE OF MEETING ALL THE QUALIFICATION REQUIREMENTS OF ND 1002051, UNLESS MODIFIED OR AMMENDED BY EMITTER CUTOFF CURRENT, IEBO. DESIGN REQUIREMENTS SECTION OF THIS DRAWING. 2) COLLECTOR CUTOFF CURRENT, ICBO. . UNIT PACKAGING AND PACKING SHALL BE IN ACCORDANCE WITH 3) COLLECTOR SATURATION VOLTAGE, VCE(SAT) MIL-P-19491 LEVEL A. 4) STATIC FORWARD CURRENT TRANSFER RATIO, hee, SEE NOTE 3. E. UNITS SHALL BE IN ACCORDANCE WITH MIL-S-19500 IN ADDITION C. THE DATA SHALL BE PRESENTED IN A MANNER THAT PROVIDES TO THE REQUIREMENTS SPECIFIED HEREIN. POSITIVE IDENTIFICATION OF EACH INDIVIDUAL TRANSISTOR WITH THE INITIAL TEST READING, THE FINAL READING AND THE PERCENT CHANGE BETWEEN THE FINAL AND INITIAL READ-ING. THE TEST DATA SUBMITTED SHALL ALSO IDENTIFY INSPECTION AND ACCEPTANCE: PARTS THAT FAIL TO MEET THE SPECIFIED REQUIREMENTS. A. MECHANICAL REQUIREMENTS: HISTOGRAMS SHALL BE PLOTTED TO SHOW THE FREQUENCY 1) LEAD DATA: KOVAR WITH GOLD PLATING PER ND 1015402 DISTIRBUTION OF THE ABSOLUTE VALUE OF EACH CHARACTER-A CERTIFICATE OF COMPLIANCE WITH THIS REQUIREMENT ISTIC AND TO SHOW THE FREQUENCY DISTRIBUTION OF THE SHALL ACCOMPANY EACH SHIPMENT. PERCENT CHANGE OF EACH CHARACTERISTIC FROM ITS INITIAL 2) MARKING: THE MANUFACTURER'S NAME, TRADEMARK OR CODE; READING. UNITS FAILING TO MEET INITIAL DRAWING RE-MANUFACTURER'S TYPE DESIGNATION; DATE CODE; LOT QUIREMENTS OR HAVING CHANGED MORE THAN 20% IN hee, OR CODE AND SERIAL NUMBER SHALL BE PERMANENTLY AND HAVING INCREASED MORE THAN 3 TIMES IN ICHO (THE LEGIBLY MARKED ON THE PART PER MIL-STD-130. MARK-ABSOLUTE CHANGE MUST BE GREATER THAN 5 NANOAMPERE) ING OF UNIT PACKAGES AND EXTERIOR SHIPPING CON-SHALL NOT BE ACCEPTABLE. TAINERS SHALL BE IN ACCORDANCE WITH MIL-P-19491 AND SHALL INCLUDE THE NASA DRAWING NUMBER AND .125 REVISION LETTER. 3) MECHANICAL DIMENSIONS PER OUTLINE SHOWN. B. ELECTRICAL REQUIREMENTS: PER TABLE 11 & 111 1) COLLECTOR CUTOFF CURRENT (ICBO) AT 100°C 1.500 MIN 2) EMITTER CUTOFF CURRENT (IEBO) 3) SWITCHBACK VOLTAGE (LVCEO) 4) STATIC FORWARD CURRENT TRANSFER RATIO (hfe) EMITTER-1-5) STATIC FORWARD CURRENT TRANSFER RATIO, RATIO. 6) BASE VOLTAGE DIFFERENTIAL. BASE-1 --EMITTER-2 40 7) COLLECTOR SATURATION VOLTAGE VCE(SAT) GRAPHICAL SYMBOL ELEMENTS INSULATED FROM CASE DESIGN REQUIREMENTS: - COLLECTOR-2 A. ELECTRICAL RATING: PER TABLE 1 B. ELECTRICAL CHARACTERISTICS: PER TABLES II & III C. STORAGE AND OPERATING JUNCTION TEMPERATURE: -65°C TO +200°C D. POWER DISSIPATION: (EACH ELEMENT) 1) AT 25°C CASE TEMPERATURE: 1.5 WATTS. 2) AT 100°C CASE TEMPERATURE: 860 MILLIWATTS. SHEET 1 SHEET 2 SHEET 3 SHEET 4 (F) REPLACES REV(E) WITH CHANGE 3) AT 25°C AMBIENT TEMPERATURE: 500 MILLIWATTS. REVISION STATUS OF SHEETS E. POWER DISSIPATION (DUAL) TOTAL: 1) AT 25°C CASE TEMPERATURE: 3 WATTS. UNLESS OTHERWISE SPECIFIED MANNED SPACECRAFT CENTER INSTRUMENTATION LAB 2) AT 100°C CASE TEMPERATURE: 1.7 WATTS. DIMENSIONS ARE IN INCHES HOUSTON, TEXAS 3) AT 25°C AMBIENT TEMPERATURE: 600 MILLIWATTS. TOLERANCES ON DECIMALS ANGLES F. LIFE TEST CONDITIONS FOR ND 1002051 SAME AS BURN-IN TRANSISTOR, CONDITIONS. NPN, SILICON, DUALSECTION APPROVAND. E Leat 25 NN 63 DO NOT SCALE THIS DRAWING SPECIFICATION CONTROL DRAWING PROCURE ONLY FROM APPROVED SOURCES LISTED ON ND 1002034 FOR THIS DRAWING ONLY NASA DRAWING NO. CODE IDENT NO. SIZE HEAT TREATMENT NASA APPROVAL LAND BRANCE NONE 1010376 **NEXT ASSY** USED ON FINAL FINISH MIT APPROVAL WKALG-24-631 NONE SCALE NONE WT SHEET OF 4 APPLICATION INCHES

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