REVISIONS 1279001 DESCRIPTION REPLACES REV E WITH CHANGES AND UPGRADED TO CLASS A RELEASE .PER TORR 02006 REQUIREMENTS: REVISED PER TDRR 02819 REVISED PER TDRR 06009 GENERAL: LEAD BEND TEST: EACH LEAD SHALL BE CAPABLE OF WITHSTANDING A LEAD A. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BEND TEST IN ACCORDANCE WITH MIL-STD-750, METHOD 2036, TEST CONDITION BY MIL-D-70327. E. A WEIGHT OF 16 OUNCES PLUS OR MINUS 1 OUNCE SHALL BE APPLIED UNITS SHALL MEET THE REQUIREMENTS OF MIL-S-19500 WITH TO EACH LEAD. THE LEAD SHALL BE RESTRICTED SUCH THAT THE BEND STARTS THE EXCEPTIONS AND ADDITIONS SPECIFIED HEREIN. 3/32 INCH PLUS OR MINUS 1/32 INCH FROM THE BODY OF THE DEVICE. NO MECHANICAL DAMAGE OR LACK OF ELECTRICAL PERFORMANCE SHALL BE THE SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PRO-VISIONS AS CONTAINED IN NO 1015404, CLASS 2. EVIDENCED AFTER THIS TEST. LEAD PULL TEST: EACH LEAD SHALL BE CAPABLE OF WITHSTANDING A LEAD UNITS SHALL BE CAPABLE OF MEETING THE QUALIFICATION PULL TEST IN ACCORDANCE WITH MIL-STD-750, METHOD 2036, TEST CONDITION REQUIREMENTS SPECIFIED IN NO 1002054. A WITH A STRAIGHT AXIAL PULL OF 4 POUNDS MINIMUM FOR 1 MINUTE: PACKAGING AND PACKING: UNIT PACKAGING AND PACKING SHALL NO MECHANICAL DAMAGE OR LACK OF ELECTRICAL PERFORMANCE SHALL BE BE IN ACCORDANCE WITH MIL-S-19491 LEVEL A, IN BOTH INSTANCES. EVIDENCED AFTER THIS TEST. ACCEPTANCE AND INSPECTION: ELECTRICAL CHARACTERISTICS: PER TABLE I. (1) ITEMS 1 THRU 5: 100 PERCENT INSPECTION. (2) SITEMS 6 AND 7: SAMPLE IN ACCORDANCE WITH MIL-STD-105. INSPECTION LEVEL I, AQL OF 4 PERCENT. MECHANICAL PROPERTIES: (1) DIMENSIONS: PER OUTLINE. SAMPLE IN ACCORDANCE WITH MIL-STD-105. INSPECTION LEVEL I, AQL OF 4 PERCENT. (2) MARKING: DIODES SHALL BE MARKED IN ACCORDANCE WITH MIL-S-19500 WITH A BLACK BAND DENOTING THE CATHODE END AND THE THREE DIGITS 751" PER DRAWING. "UNIT PACKAGES SHEET 2 SHEET 1 AND EXTERIOR SHIPPING CONTAINERS SHALL BE MARKED IN REVISION STATUS OF SHEETS ACCORDANCE WITH ND1002019 AND SHALL INCLUDE THE NASA DRAWING NUMBER. REVISION LETTER AND DASH NUMBER. (3) LEAD MATERIAL: LEAD MATERIAL SHALL BE NICKEL PER PS: 1015400. GOLD PLATING PER PARAGRAPH 3.2 IS OPTIONAL. A CERTIFICATE DENOTES CATHODE END-OF COMPLIANCE SHALL ACCOMPANY EACH SHIPMENT. CEACLE SHEET MARKET .019 DESIGN: 2 LEADS FIGURE 1 ABSOLUTE MAXIMUM RATINGS: TEST CIRCUIT - REVERSE RECOVERY TIME (1) POWER DISSIPATION: 500 MILLIWATTS AT 25 DEGREES CENTIGRADE AMBIENT TEMPERATURE. SAMPLING SCOPE (2) JUNCTION TEMPERATURE (TJ): FROM MINUS 65 DEGREES PULSE GENERATOR 30 OHMS CENTIGRADE TO PLUS 175 DEGREES CENTIGRADE. ~50:0HMS 1.00 .275 (3) STORAGE TEMPERATURE (TSTG): FROM MINUS 65 DEGREES CENTIGRADE TO PLUS 200 DEGREES CENTIGRADE. 2 LEADS (4) PEAK FORWARD SURGE CURRENT (if SURGE): 1 AMPERE ltr ≤ 0.4 n sec = $\frac{1}{2}t_r \leq 0.25n \text{ sed}$ FOR 1 SECOND MINIMUM. REPETATIVE DUTY CYCLE OF 1 PERCENT. UNDER ATTENUATOR REPLACES REVE WITH CHANGES ATTENUATOR CONSTRUCTION: GLASS, HERMETICALLY SEALED ENCLOSURE. TEST .01 uf 50 OHMS THERMAL SHOCK: UNITS SHALL BE CAPABLE OF WITHSTANDING NOMENCLATURE OR PART OR A THERMAL SHOCK IN SILICON OIL FROM ZERO DEGREES CENTI-DESCRIPTION IDENTIFYING NO. 500 OHMS GRADE TO +300 DEGREES CENTIGRADE FOR 5 COMPLETE CYCLES. LIST OF MATERIALS TOTAL IMMERSION TIME EACH HALF CYCLE SHALL BE 30 SECONDS. ELAPSED TRANSFER TIME FROM ONE TEMPERATURE EXTREME TO UNLESS OTHERWISE SPECIFIED MANNED SPACECRAFT CENTER INSTRUMENTATION LAB **DIMENSIONS ARE IN INCHES** THE OTHER SHALL NOT EXCEED 3 SECONDS. HOUSTON, TEXAS TOLERANCES ON UNITS SHALL SHOW NO PHYSICAL DAMAGE OR LACK OF ELECTRICAL FRACTIONS DECIMALS ANGLES DRAWN C. Gastidate 7 hunds

± ± ± CHECKED Regues 15 May 63 PERFORMANCE AFTER THERMAL SHOCK. SEMICONDUCTOR DEVICE, DIODE DO NOT SCALE THIS DRAWING PROCURE ONLY FROM APPROVED SOURCES LISTED IN APPROVAL Elder C Hall 10463 MATERIAL SPECIFICATION CONTROL DRAWING ND 1002034 FOR THIS DRAWING. SEE NOTES NASA DRAWING NO. NASA APPROVAL WO While CODE IDENT NO. SIZE HEAT TREATMENT 1006751 07-17-63 USED ON **NEXT ASSY** FINAL FINISH MIT APPROVAL & Wage VING SCALE NONE WT **APPLICATION**

4

INCHES PHOTOGRAPHIC SCALE ONLY DATE APPROVAL

7/17/0 24

.08

FIND

OF 2

8/28/63 ECH DA