

1. GENERAL REQUIREMENTS.

- 1.1 MANUFACTURED BY BRK APPROVED SOURCE.
- 1.2 SINUSOIDAL VOLTAGE ASSUMED AS NORMAL INPUT CONDITIONS.
- 1.3 PART MUST BE LEGIBLY AND PERMANENTLY MARKED WITH BRK PART NUMBER, OR THE RATED RMS VOLTAGE OF THE COMPONENT.
- 1.4 STORAGE TEMPERATURE, T(STG) = -40° C TO +125° C MAX.
- 1.5 OPERATING SURFACE TEMPERATURE = 115° C MAX.
- 1.6 OPERATING AMBIENT TEMPERATURE (WITHOUT DERATING) = 85° C MAX..
- 1.7 INSULATION RESISTANCE - MEGOHMS 1000 MIN.
- 1.8 HIPOT ENCAPSULATION - VOLTS DC FOR ONE MINUTE = 2000.
- 1.9 PART MUST BE EASILY SOLDERED PER BRK SOLDERABILITY SPEC **S61-15**.
REF MILITARY STANDARD 202E METHOD 208C.

2. SPECIAL REQUIREMENTS - AS INDICATED IN CHART.

- 2.1 PART MUST PASS THE TRANSIENT TEST OF PARAGRAPHS 2.1.1 AND 2.1.2.
 - 2.1.1 UL TRANSIENT TEST USING VELONEX MODULE 587 OR EQUIVALENT. 250 POSITIVE AND 250 NEGATIVE PULSES, 6000 VOLT OSCILLATORY, 0.5 MICRO-SEC. RISE, 100KHz. SEE FIG. 1. VARISTOR CHARACTERISTIC VOLTAGE MUST NOT CHANGE BY MORE THAN 5% AND MUST REMAIN WITHIN SPEC.
 - 2.1.2 FCC LINE SURGE TEST USING VELONEX MODULE 551 OR EQUIVALENT. 5 POSITIVE PULSES AND 5 NEGATIVE PULSES, 2500 VOLTS, < 2X > 10 WAVE SHAPE (LESS THAN 2 MICRO-SEC. TO CREST AND GREATER THAN 10 MICRO-SEC. DECAY TO 1/2 CREST VOLTAGE). SEE FIG. 2. VARISTOR CHARACTERISTIC VOLTAGE MUST NOT CHANGE BY MORE THAN 5% AND MUST REMAIN WITHIN SPEC.
 - 2.1.3 THE PART MUST CONTINUE TO ABSORB OVER-VOLTAGE PULSES AND PROTECT THE PRODUCT FROM DAMAGE WHEN ASSEMBLED INTO THE INTENDED PRODUCT AND SUBJECTED TO THE TRANSIENT PULSES DESCRIBED IN 2.1.1 AND 2.1.2 WITHOUT FLAME OR CAUSE PCB DAMAGES WHEN THE PART IS ASSEMBLED IN THE PRODUCT AND SUBJECTED TO CONTINUED OVER VOLTAGE,
- 2.2 PART MUST PASS STATIC DISCHARGE TEST. 5 SURGES EACH OF NEGATIVE AND POSITIVE POLARITY FROM A 250 pf CAPACITOR CHARGED TO 10KV. VARISTOR UNDER TEST IS CONNECTED TO CHARGED 250 pf CAPACITOR THROUGH 1.5 Kohm RESISTOR. MAXIMUM CHANGE OF VOLTAGE AFTER TEST IS + 10%.
- 2.3 PART MUST PASS THE TESTS DESCRIBED IN PARAGRAPHS 2.1.1 AND 2.1.2 EXCEPT THAT 25 POSITIVE AND 25 NEGATIVE PULSES ARE TO BE USED INSTEAD OF 250 IN 2.1.1. IN ADDITION, IT MUST MEET ALL ELECTRICAL AND MECHANICAL SPECIFICATIONS AFTER BEING SUBJECTED TO THE TRANSIENT TESTING DESCRIBED IN BRK SPECIFICATION **Z75-560-02**.
- 2.4 PARTS TO BE TAPED AND REELED FOR VERTICAL INSERTION PER **S61-13-03**. CURRENT DIMENSIONAL REQUIREMENTS ARE INCLUDED IN THAT SPECIFICATION.
- 2.5 PARTS TO BE TAPED AND REELED PER **S61-13-06**. CURRENT DIMENSIONAL REQUIREMENTS ARE INCLUDED IN THAT SPEC.

3. PARTS MUST HAVE CHARACTERISTIC VOLTAGE AT 1mA DC SPECIFIED BOTH BEFORE AND AFTER BURN IN TEST PER **Z75-2208**.

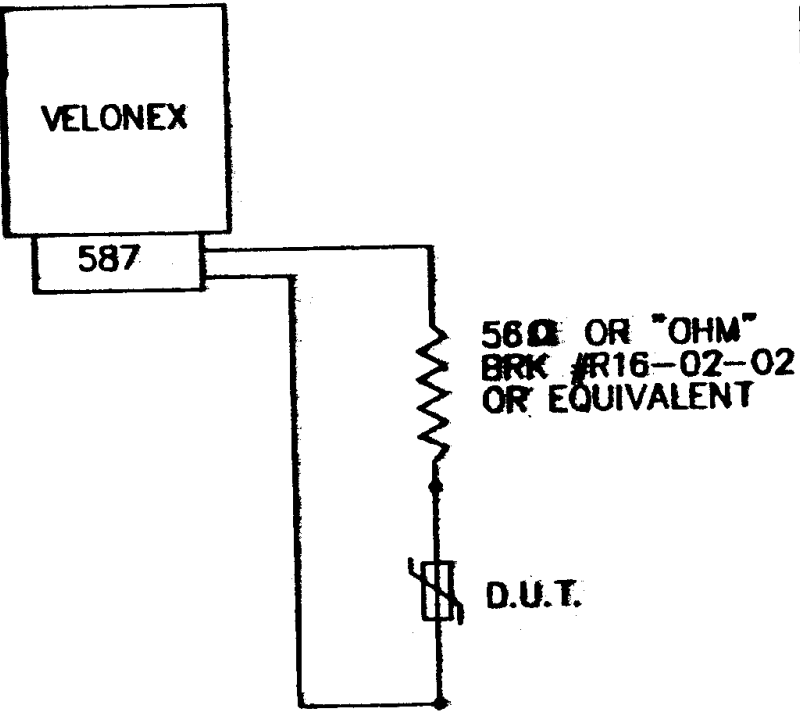


FIG. 1
UL TEST

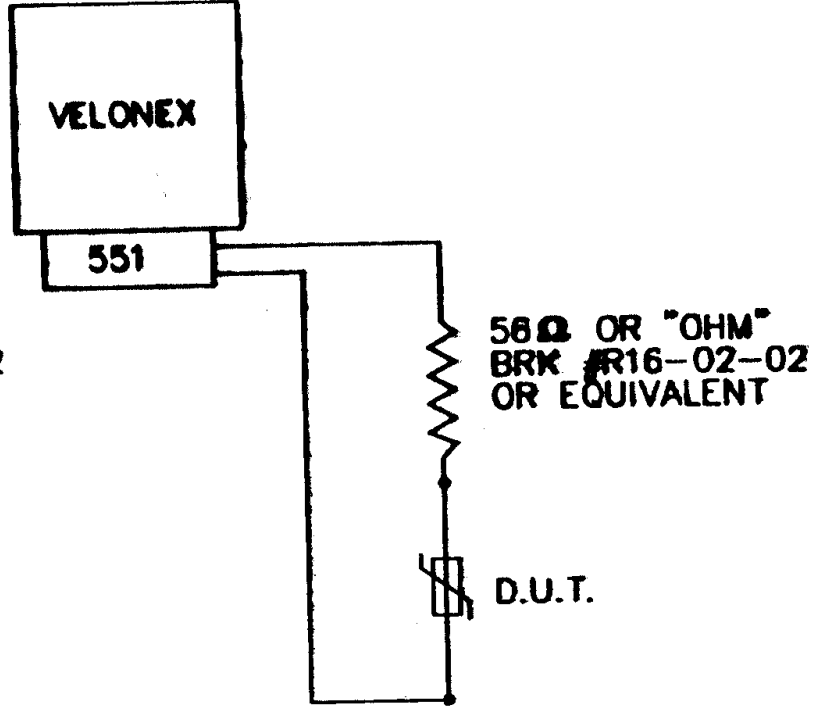


FIG. 2
F.C.C. TEST