REQUIREMENTS:

GENERAL:
INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-S-70377. SUPPLIERS SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS OF ND 1015404 CLASS 2. UNITS SHALL MEET THE GENERAL REQUIREMENTS OF MIL-S-19500 WITH THE EXCEPTIONS AND ADDITIONS SPECIFIED IN THIS DRAWING.
UNIT PACKAGING AND PACKING SHALL BE IN ACCORDANCE WITH MIL-P-19499 LEVEL A IN BOTH INSTANCES.

INSPECTION & ACCEPTANCE:
LEAD DATA: LEADS SHALL BE IRON-NICKEL ALLOY (DUMET) PER ND 1015401 CERTIFICATION OF COMPLIANCE WITH THIS REQUIREMENT SHALL ACCOMPANY EACH SHIPMENT.

ELECTRICAL SPECIFICATIONS PER TABLE I.
ZENER VOLTAGE (Vz)
ZENER IMPEDANCE (Z7)

DESIGN REQUIREMENTS:

MINIMUM RATINGS:
ZENER CURRENT: 60 mA DC
POWER DISSIPATION: 400 MILLIWATTS (SEE DERATING CURVE)
STORAGE TEMPERATURE: -65°C TO +150°C
TEMPERATURE COEFFICIENT: .002%/°C WITH A ZENER CURRENT OF 7.5 mA.

SPECIAL CONDITIONING BY SUPPLIER:
UNITS SHALL BE BURNED IN FOR 240 HOURS AT THE FOLLOWING CONDITIONS:
1. AMBIENT TEMPERATURE 100°C ±5°C.
2. POWER DISSIPATION: 50% OF THE 100°C CASE TEMPERATURE RATING.
UNITS WHICH FAIL TO MEET ALL INITIAL REQUIREMENTS OR WHICH EXCEED THE SPECIFIED LIMITS FOR PARAMETRIC CHANGES FOLLOWING BURN IN SHALL NOT BE SHIPPED.
THE MANUFACTURER SHALL DETERMINE AND RECORD THE FOLLOWING ELECTRICAL CHARACTERISTICS PRIOR TO AND FOLLOWING BURN IN:
1. ZENER VOLTAGE (Vz)
2. DYNAMIC IMPEDANCE (Z7)
3. LEAKAGE CURRENT (Ip)

PARAMETRIC CHANGE LIMITS:
1. ZENER VOLTAGE: ±0.05% OF INITIAL MEASURED VALUE
2. DYNAMIC IMPEDANCE: ±5% OF INITIAL MEASURED VALUE
3. LEAKAGE CURRENT: SHALL NOT EXCEED 100% OF INITIAL MEASURED VALUE.

FOR INFORMATION ONLY
CLASS B RELEASE TD No. 0/450 DATE

REPLACED BY REV B WITH CHANGES
### Table I

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Conditions</th>
<th>Symbol</th>
<th>Specification Limits</th>
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</thead>
<tbody>
<tr>
<td>Zener Voltage</td>
<td>$I_Z = 7.5$ MA</td>
<td>$V_Z$</td>
<td>5.9 - 6.3 VOLS</td>
</tr>
<tr>
<td>Zener Impedance</td>
<td>$I_Z = 7.5$ MA</td>
<td>$Z_{IT}$</td>
<td>10 OHMS</td>
</tr>
<tr>
<td>Zener Impedance</td>
<td>$I_Z = 1$ MA</td>
<td>$Z_{2Z}$</td>
<td>200 OHMS</td>
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<tr>
<td>Leakage Current</td>
<td>$V_Z = 5.0$ VOLS</td>
<td>$I_L$</td>
<td>100 mA</td>
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</tbody>
</table>

### Derating Curve

- Derating curve for $T_{AMBIENT}$
- For information only
- Class B Release TDR No. 01450 - Date 4/46

- $400$ MW
- $200$ MW
- $50 - 100 - 150$ (Ta) AMBIENT TEMP(°C)

-违反了Rev B的修订

- 除非另有说明，尺寸以英寸为单位

- 各项公差为小数

- 材料

<table>
<thead>
<tr>
<th>Material</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>NONE</td>
<td>FINAL FINISH</td>
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<tr>
<td>NONE</td>
<td>HEAT TREATMENT</td>
</tr>
</tbody>
</table>

- Manned Spacecraft Center, Houston, Texas
- Semiconductor Device, Diode
- Specification Control Drawing

- Code Ident No. Size: C 1006838

- NASA Drawing No.: C 1006838