

- 1N5819-1 AND 1N6761-1 AVAILABLE IN JAN, JANTX, JANTXV, AND JANS PER MIL-PRF-19500/586
- 1 AMP SCHOTTKY BARRIER RECTIFIERS
- HERMETICALLY SEALED
- METALLURGICALLY BONDED

1N5819
and
DSB5817 and DSB5818
and
1N6759 thru 1N6761
and
DSB1A20 thru DSB1A100

MAXIMUM RATINGS

Operating Temperature: -55°C to +125°C
Storage Temperature: -55°C to +150°C
Average Rectified Forward Current: 1.0 AMP @ $T_L = +55^\circ\text{C}$, $L = 3/8"$
Derating: 14 mA / °C above $T_L = +55^\circ\text{C}$, $L = 3/8"$

ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise specified.

| CDI TYPE NUMBER | WORKING PEAK REVERSE VOLTAGE | MAXIMUM FORWARD VOLTAGE | | | MAXIMUM REVERSE LEAKAGE CURRENT AT RATED VOLTAGE | |
|------------------------|------------------------------------|-------------------------|------------|-------------------------------------|--|-------------------------|
| | V_{RWM} | $V_F@0.1A$ | $V_F@1.0A$ | $V_F@3.1A$ | $I_R@25^\circ\text{C}$ | $I_R@100^\circ\text{C}$ |
| | VOLTS | VOLTS | VOLTS | VOLTS | mA | mA |
| DSB5817 | 20 | 0.36 | 0.60 | 0.9 | 0.10 | 5.0 |
| DSB5818 | 30 | 0.36 | 0.60 | 0.9 | 0.10 | 5.0 |
| 1N5819 | 40 | 0.36 | 0.60 | 0.9 | 0.10 | 5.0 |
| J,JX,JV & JS 5819-1 | 45 | 0.34 | 0.49 | 0.8 | 0.05 | 5.0 |
| 1N6759 | 60 | 0.38 | 0.69 | NA | 0.10 | 6.0 |
| 1N6760 | 80 | 0.38 | 0.69 | NA | 0.10 | 6.0 |
| 1N6761 | 100 | 0.38 | 0.69 | NA | 0.10 | 6.0 |
| J,JX,JV & JS 6761-1 | 100 | 0.38 | 0.69 | NA | 0.10 | 12.0 |
| DSB1A20 | 20 | 0.36 | 0.60 | 0.9 | 0.10 | 5.0 |
| DSB1A30 | 30 | 0.36 | 0.60 | 0.9 | 0.10 | 5.0 |
| DSB1A40 | 40 | 0.36 | 0.60 | 0.9 | 0.10 | 5.0 |
| DSB1A50 | 50 | 0.36 | 0.60 | 0.9 | 0.10 | 5.0 |
| DSB1A60 | 60 | 0.38 | 0.69 | NA | 0.10 | 12.0 |
| DSB1A80 | 80 | 0.38 | 0.69 | NA </td <td>0.10</td> <td>12.0</td> | 0.10 | 12.0 |
| DSB1A100 | 100 | 0.38 | 0.69 | NA | 0.10 | 12.0 |

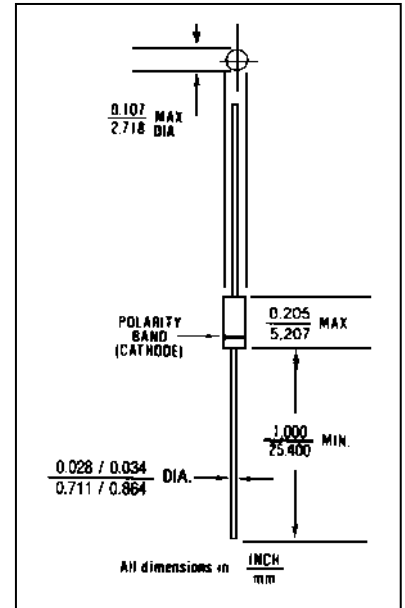


FIGURE 1

DESIGN DATA

CASE: Hermetically sealed, DO - 41

LEAD MATERIAL: Copper clad steel

LEAD FINISH: Tin / Lead

THERMAL RESISTANCE: ($R_{\theta JC}$): 70 °C/W maximum at $L = .375$ inch

THERMAL IMPEDANCE: ($Z_{\theta JX}$): 12 °C/W maximum

POLARITY: Cathode end is banded.

MOUNTING POSITION: Any



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1N5819 and DSB5817 and DSB5818 and 1N6759 thru 1N6761 and DSB1A20 thru DSB1A100

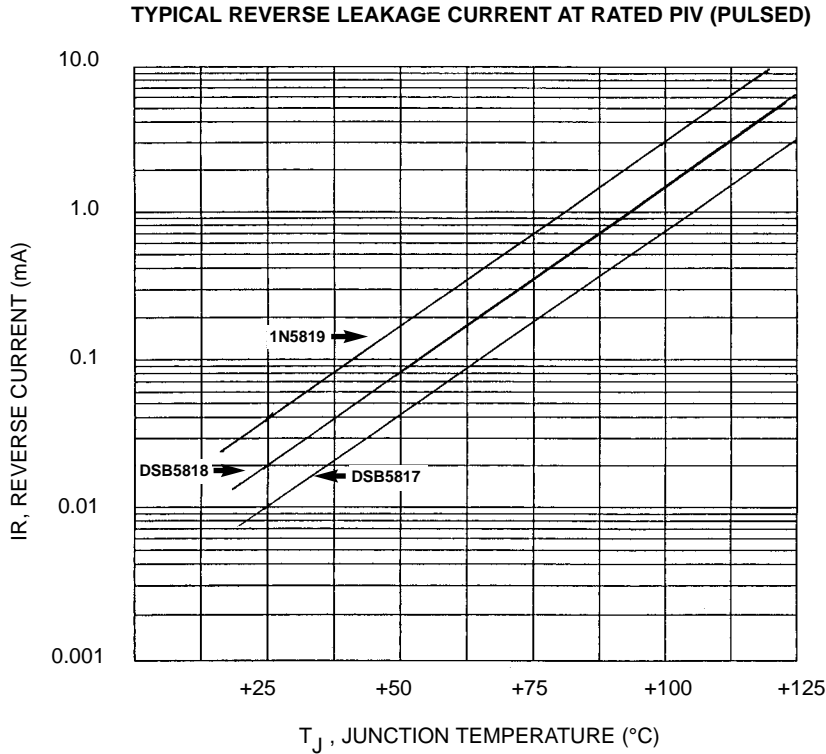


FIGURE 1

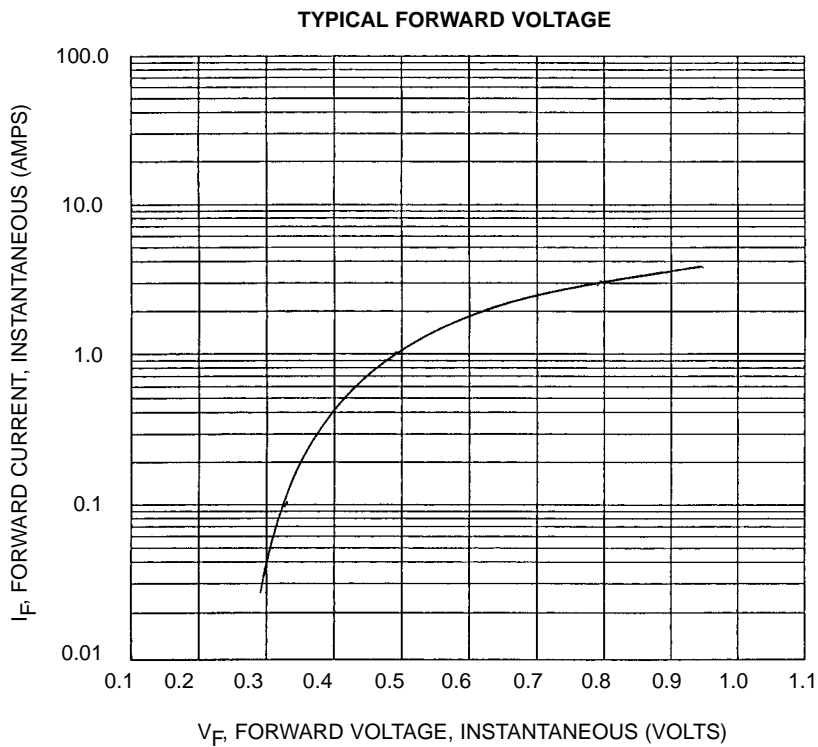


FIGURE 2