

- 1N6677-1 AVAILABLE IN JAN, JANTX, JANTXV AND JANS PER MIL-PRF-19500/610
- 0.2 AND 0.5 AMP SCHOTTKY BARRIER RECTIFIERS
- HERMETICALLY SEALED
- METALLURGICALLY BONDED
- DOUBLE PLUG CONSTRUCTION

1N6675 thru 1N6677
and
DSB0.2A20 thru DSB0.2A40
and
DSB0.5A20 thru DSB0.5A40

MAXIMUM RATINGS - 0.2 AMP DEVICES

Operating Temperature: -65°C to +125°C
Storage Temperature: -65°C to +150°C
Average Rectified Forward Current: 0.2 AMP @ $T_L = +100^\circ\text{C}$, $L = 3/8"$
Derating: 8.0 mA / °C above $T_L = +100^\circ\text{C}$, $L = 3/8"$

ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise specified.

| CDI TYPE NUMBER | WORKING PEAK REVERSE VOLTAGE V_{RWM} VOLTS | MAXIMUM FORWARD VOLTAGE | | | MAXIMUM REVERSE LEAKAGE CURRENT AT RATED VOLTAGE | | MAXIMUM CAPACITANCE @ $V_R = 0$ VOLTS $f = 1.0$ MHz C_T PICO FARADS |
|-----------------|--|-------------------------|----------------|----------------|--|----------------------------|--|
| | | $V_F @ 20$ mA | $V_F @ 200$ mA | $V_F @ 630$ mA | $I_R @ +25^\circ\text{C}$ | $I_R @ +100^\circ\text{C}$ | |
| | | VOLTS | VOLTS | VOLTS | μA | mA | |
| 1N6675 | 20 | 0.37 | 0.50 | 0.70 | 5.0 | 0.6 | 50 |
| 1N6676 | 30 | 0.37 | 0.50 | 0.70 | 5.0 | 0.6 | 50 |
| 1N6677 | 40 | 0.37 | 0.50 | 0.70 | 5.0 | 0.6 | 50 |
| DSB0.2A20 | 20 | 0.37 | 0.50 | 0.70 | 5.0 | 0.6 | 50 |
| DSB0.2A30 | 30 | 0.37 | 0.50 | 0.70 | 5.0 | 0.6 | 50 |
| DSB0.2A40 | 40 | 0.37 | 0.50 | 0.70 | 5.0 | 0.6 | 50 |

MAXIMUM RATINGS - 0.5 AMP DEVICES

Operating Temperature: -65°C to +125°C
Storage Temperature: -65°C to +150°C
Average Rectified Forward Current: 0.5 AMP @ +75°C
Derating: 6.67 mA / °C above +75°C

ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise specified.

| CDI TYPE NUMBER | WORKING PEAK REVERSE VOLTAGE V_{RWM} VOLTS | MAXIMUM FORWARD VOLTAGE | | MAXIMUM REVERSE LEAKAGE CURRENT AT RATED VOLTAGE | | MAXIMUM CAPACITANCE @ $V_R = 0$ VOLTS $f = 1.0$ MHz C_T PICO FARADS |
|-----------------|--|-------------------------|---------------------|--|----------------------------|--|
| | | $V_F @ 0.1\text{A}$ | $V_F @ 0.5\text{A}$ | $I_R @ +25^\circ\text{C}$ | $I_R @ +100^\circ\text{C}$ | |
| | | VOLTS | VOLTS | μA | mA | |
| DSB0.5A20 | 20 | 0.50 | 0.65 | 10.0 | 1.0 | 60 |
| DSB0.5A30 | 30 | 0.50 | 0.65 | 10.0 | 1.0 | 60 |
| DSB0.5A40 | 40 | 0.50 | 0.65 | 10.0 | 1.0 | 60 |

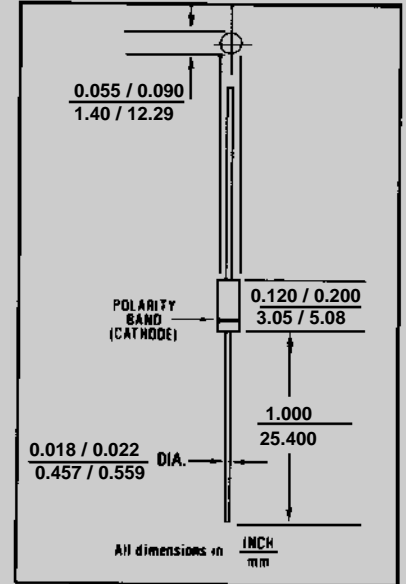


FIGURE 1

DESIGN DATA

CASE: Hermetically sealed, DO-35
LEAD MATERIAL: Copper clad steel
LEAD FINISH: Tin / Lead
THERMAL RESISTANCE: ($R_{\theta JEC}$): 250 °C/W maximum at $L = .375$ inch
THERMAL IMPEDANCE: ($Z_{\theta JX}$): 20 °C/W maximum
POLARITY: Cathode end is banded.
MOUNTING POSITION: Any



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1N6675 thru 1N6677 and DSB0.2A20 thru DSB0.2A40 and DSB0.5A20 thru DSB0.5A40

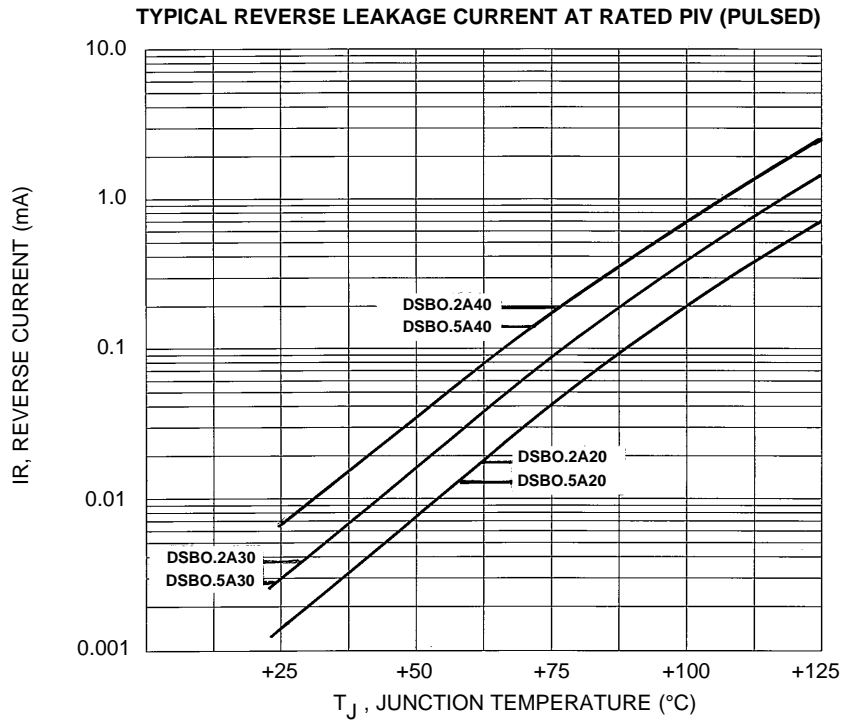


FIGURE 1

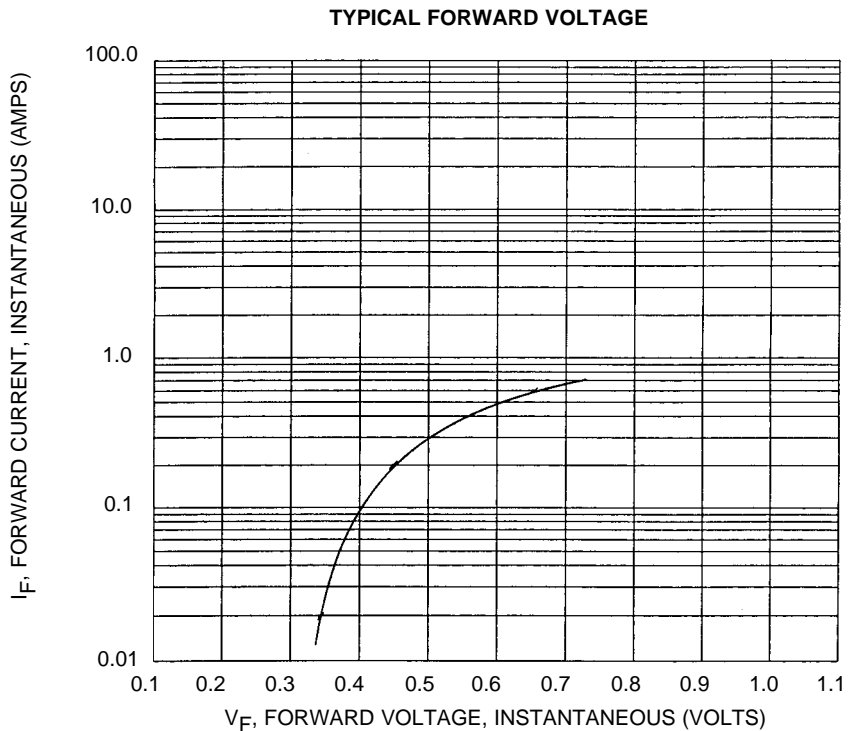


FIGURE 2