

- 1N5822 AVAILABLE IN JAN, JANTX, JANTXV AND JANS PER MIL-PRF-19500/620
- 3 AMP SCHOTTKY BARRIER RECTIFIERS
- HERMETICALLY SEALED
- METALLURGICALLY BONDED

1N5822
and
DSB5820 thru DSB5822
and
DSB3A20 thru DSB3A40

MAXIMUM RATINGS

Operating Temperature: -65°C to +125°C
Storage Temperature: -65°C to +150°C
Average Rectified Forward Current: 3.0 AMP @ $T_L = +55^\circ\text{C}$, $L = 3/8"$
Derating: 43 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} | $V_F @ 1.0 \text{ A}$ | $V_F @ 3.0 \text{ A}$ | $V_F @ 9.4 \text{ A}$ | $I_R @ +25^\circ\text{C}$ |
| | VOLTS | VOLTS | VOLTS | VOLTS | mA | mA |
| DSB5820 | 20 | 0.40 | 0.50 | 0.70 | 0.10 | 12.5 |
| DSB5821 | 30 | 0.40 | 0.50 | 0.70 | 0.10 | 12.5 |
| DSB5822 | 40 | 0.40 | 0.50 | 0.70 | 0.10 | 12.5 |
| J,JX,JV & JS 5822 | 40 | 0.40 | 0.50 | 0.70 | 0.10 | 12.5 |
| DSB3A20 | 20 | 0.40 | 0.50 | 0.70 | 0.10 | 12.5 |
| DSB3A30 | 30 | 0.40 | 0.50 | 0.70 | 0.10 | 12.5 |
| DSB3A40 | 40 | 0.40 | 0.50 | 0.70 | 0.10 | 12.5 |

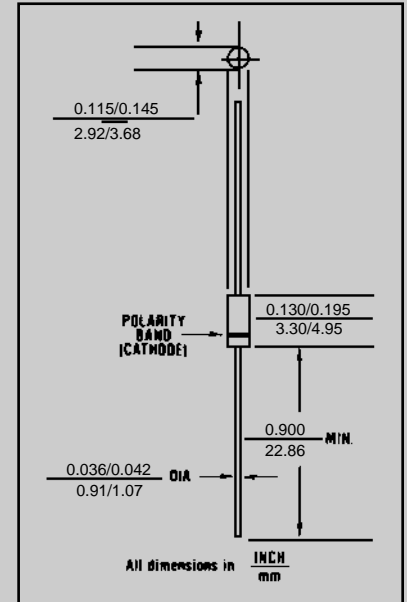


FIGURE 1

DESIGN DATA

CASE: Hermetically sealed, "B" Body per MIL-PRF-19500/620. D-5B

LEAD MATERIAL: Copper clad steel

LEAD FINISH: Tin / Lead

THERMAL RESISTANCE: ($R_{\theta JEC}$): 30 °C/W maximum at $L = .375$ inch

THERMAL IMPEDANCE: ($Z_{\theta JX}$): 3 °C/W maximum

POLARITY: Cathode end is banded.

MOUNTING POSITION: Any



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1N5822 and DSB5820 thru DSB5822 and DSB3A20 thru DSB3A40

TYPICAL REVERSE LEAKAGE CURRENT AT RATED PIV (PULSED)

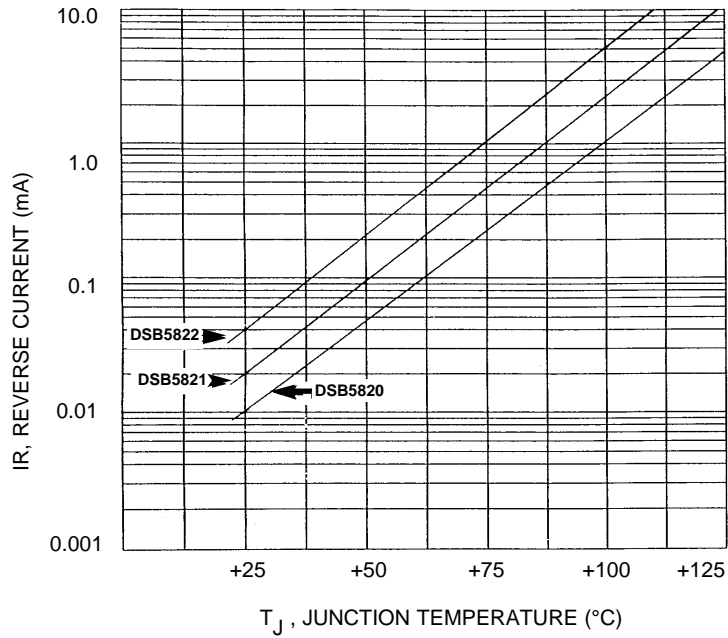


FIGURE 1

TYPICAL FORWARD VOLTAGE

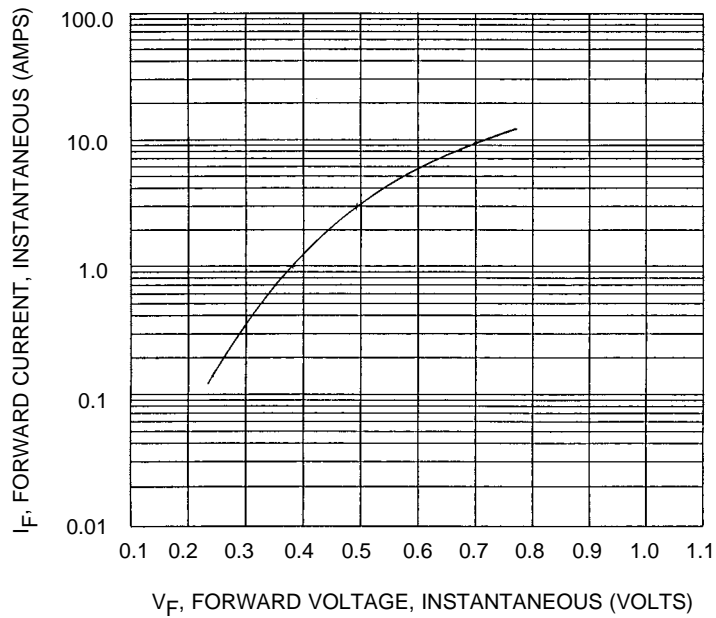


FIGURE 2