

- 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		
		$V_{RWM}$	$V_F @ 1.0 \text{ A}$	$V_F @ 3.0 \text{ A}$	$V_F @ 9.4 \text{ A}$	$I_R @ +25^\circ\text{C}$	$I_R @ +100^\circ\text{C}$
		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	

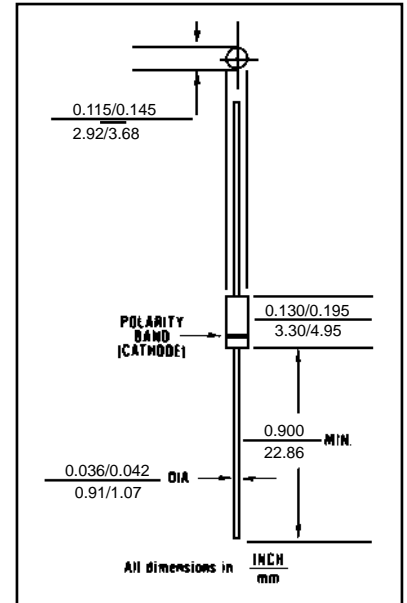


FIGURE 1

### 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:** ( $R_{\theta JC}$ ): 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



**COMPENSATED DEVICES INCORPORATED**

22 COREY STREET, MELROSE, MASSACHUSETTS 02176  
PHONE (781) 665-1071 FAX (781) 665-7379  
WEBSITE: <http://www.cdi-diodes.com> E-mail: [mail@cdi-diodes.com](mailto:mail@cdi-diodes.com)

# 1N5822 and DSB5820 thru DSB5822 and DSB3A20 thru DSB3A40

TYPICAL REVERSE LEAKAGE CURRENT AT RATED PIV (PULSED)

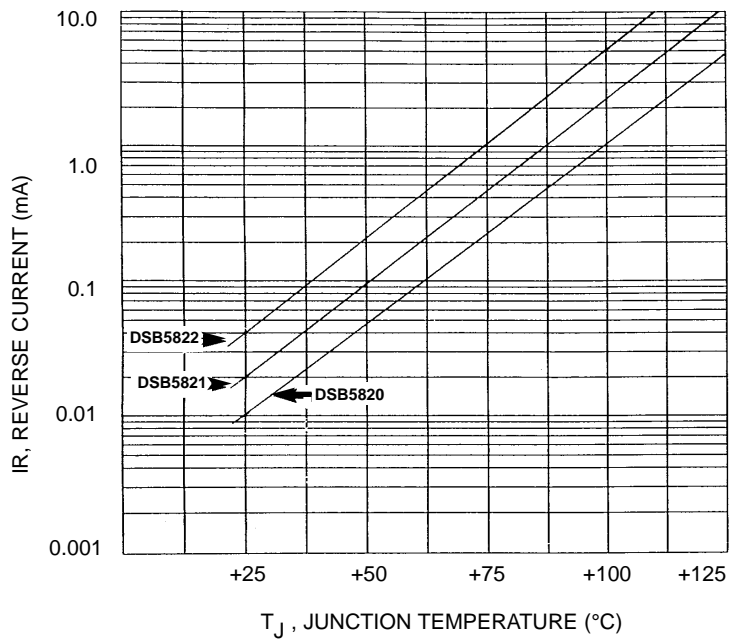


FIGURE 1

TYPICAL FORWARD VOLTAGE

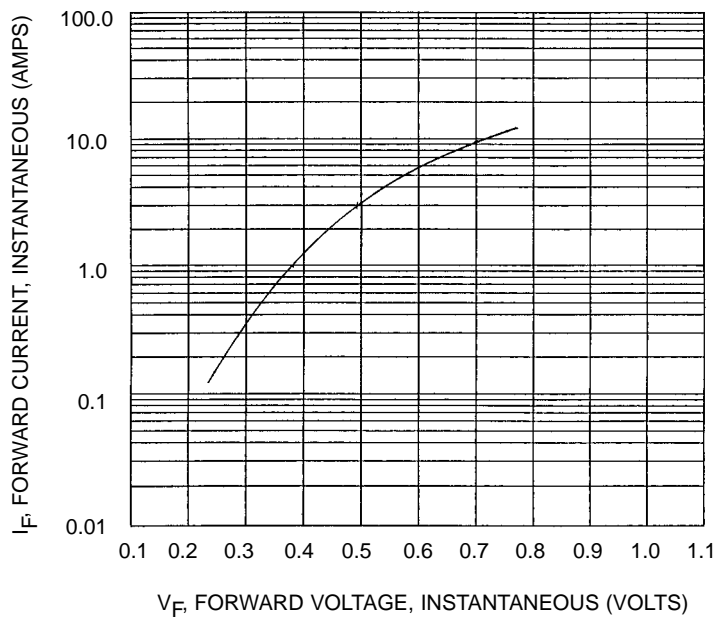


FIGURE 2