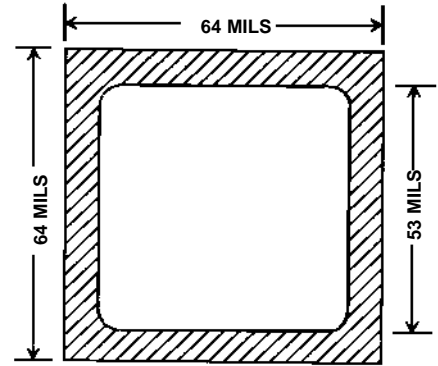


- 1N5822 AVAILABLE IN JANHC AND JANKC PER MIL-PRF-19500/620
- 3 AMP SCHOTTKY BARRIER RECTIFIER CHIPS
- SILICON DIOXIDE PASSIVATED
- COMPATIBLE WITH ALL WIRE BONDING AND DIE ATTACH TECHNIQUES, WITH THE EXCEPTION OF SOLDER REFLOW

CD5820
thru
CD5822
and
CD3A20
thru
CD3A40

MAXIMUM RATINGS

Operating Temperature: -65°C to +125°C
 Storage Temperature: -65°C to +150°C
 Average Rectified Forward Current: 3.0 AMP @ +55°C
 Derating: 43 mA / °C above +55°C



BACKSIDE IS CATHODE
FIGURE 1

| CDI TYPE NUMBER | WORKING PEAK REVERSE VOLTAGE | MAXIMUM FORWARD VOLTAGE | | MAXIMUM REVERSE LEAKAGE CURRENT AT RATED VOLTAGE | |
|-----------------------|------------------------------------|-------------------------|----------------------|--|-----------------------|
| | V _{RWM} | V _F @1.0A | V _F @3.0A | I _R @25°C | I _R @100°C |
| | VOLTS | VOLTS | VOLTS | mA | mA |
| CD5820 | 20 | 0.45 | 0.55 | 0.10 | 12.5 |
| CD5821 | 30 | 0.45 | 0.55 | 0.10 | 12.5 |
| CD5822 | 40 | 0.45 | 0.55 | 0.10 | 12.5 |
| JHC, JKC 5822 | 40 | 0.40 | 0.50 | 0.10 | 12.5 |
| CD3A20 | 20 | 0.45 | 0.55 | 0.10 | 12.5 |
| CD3A30 | 30 | 0.45 | 0.55 | 0.10 | 12.5 |
| CD3A40 | 40 | 0.45 | 0.55 | 0.10 | 12.5 |

DESIGN DATA

METALLIZATION:
 Top: (Anode).....Al
 Back:(Cathode)Au

AL THICKNESS.....25,000 Å Min
GOLD THICKNESS.....4,000 Å Min
CHIP THICKNESS.....10 Mils

TOLERANCES: ALL
 Dimensions ± 2 mils



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

CD5820 thru CD5822 and CD3A20 thru CD3A40

TYPICAL REVERSE LEAKAGE CURRENT AT RATED PIV (PULSED)

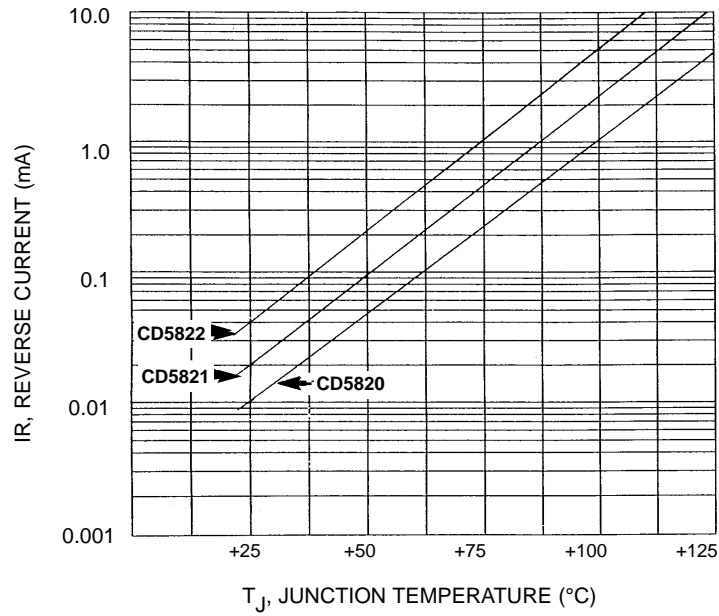


FIGURE 1

TYPICAL FORWARD VOLTAGE

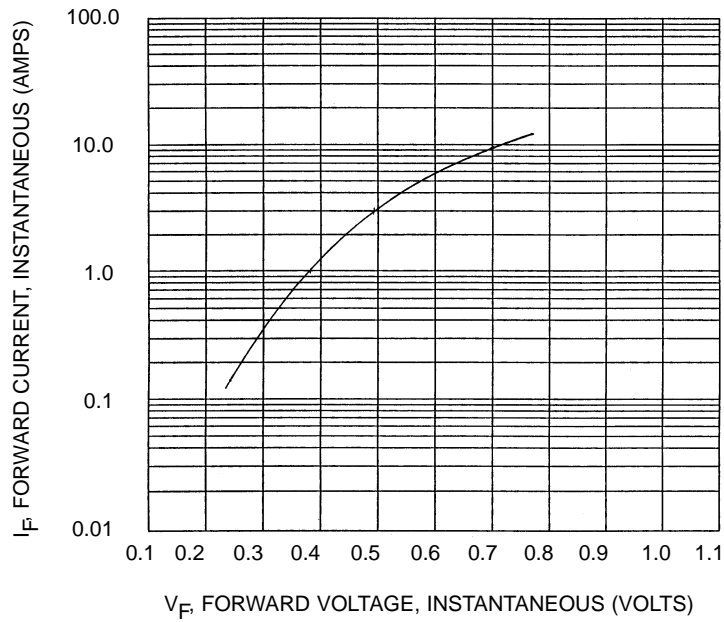


FIGURE 2