- **IN6677 AVAILABLE IN JANHC AND JANKC PER MIL-PRF-19500/610**
- **0.2 & 0.5 AMP SCHOTTKY BARRIER RECTIFIER CHIPS**
- **SILICON DIOXIDE PASSIVATED**
- **COMPATIBLE WITH ALL WIRE BONDING AND DIE ATTACH TECHNIQUES , WITH THE EXCEPTION OF SOLDER REFLOW**

# CD6675 thru CD6677 and CD0.2A20 thru CDO.2A40 and CD0.5A20 thru CDO.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 @ 75°C

**ELECTRICAL CHARACTERISTICS** @ 25°C, unless otherwise specified.

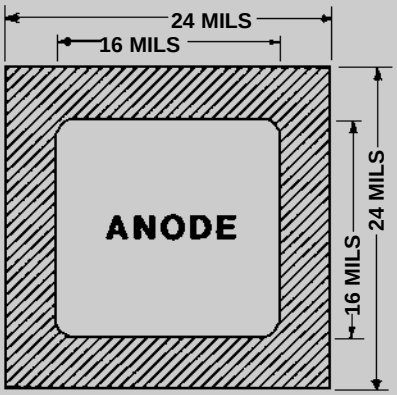
| CDI TYPE NUMBER | WORKING PEAK REVERSE VOLTAGE | MAXIMUM FORWARD VOLTAGE | | | MAXIMUM REVERSE LEAKAGE CURRENT AT RATED VOLTAGE | | MAXIMUM CAPACITANCE @ $V_R$ = 0 VOLTS f =1.0 MHz |
|---|---|---|---|---|---|---|---|
| | $V_{RWM}$ | $V_F$ @ 20 mA | $V_F$ @ 200 mA | $V_F$ @ 630 mA | $I_R$ @ +25°C | $I_R$ @ +100°C | $C_T$ |
| | VOLTS | VOLTS | VOLTS | VOLTS | μA | mA | PICO FARADS |
| CD6675 | 20 | 0.37 | 0.50 | 0.70 | 5.0 | 0.6 | 50 |
| CD6676 | 30 | 0.37 | 0.50 | 0.70 | 5.0 | 0.6 | 50 |
| CD6677 | 40 | 0.37 | 0.50 | 0.70 | 5.0 | 0.6 | 50 |
| CD0.2A20 | 20 | 0.37 | 0.50 | 0.70 | 5.0 | 0.6 | 50 |
| CD0.2A30 | 30 | 0.37 | 0.50 | 0.70 | 5.0 | 0.6 | 50 |
| CD0.2A40 | 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

**ELECTRICAL CHARACTERISTICS** @ 25°C, unless otherwise specified.

| CDI TYPE NUMBER | WORKING PEAK REVERSE VOLTAGE | MAXIMUM FORWARD VOLTAGE | | MAXIMUM REVERSE LEAKAGE CURRENT AT RATED VOLTAGE | | MAXIMUM CAPACITANCE @ $V_R$ = 0 VOLTS f =1.0 MHz |
|---|---|---|---|---|---|---|
| | $V_{RWM}$ | $V_F$ @ 0.1A | $V_F$ @ 0.5A | $I_R$ @ +25°C | $I_R$ @ +100°C | $C_T$ |
| | VOLTS | VOLTS | VOLTS | μA | mA | PICO FARADS |
| CD0.5A20 | 20 | 0.50 | 0.65 | 10.0 | 1.0 | 50 |
| CD0.5A30 | 30 | 0.50 | 0.65 | 10.0 | 1.0 | 50 |
| CD0.5A40 | 40 | 0.50 | 0.65 | 10.0 | 1.0 | 50 |




**BACKSIDE IS CATHODE**
**FIGURE 1**

## 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

Microsemi

6 LAKE STREET, LAWRENCE, MASSACHUSETTS 01841
PHONE (978) 620-2600 FAX (978) 689-0803
WEBSITE: http://www.microsemi.com

# CD6675 thru CD6677
# and
# CD0.5A20 thru CD0.5A40
# and
# CD0.5A20 thru CD0.5A40

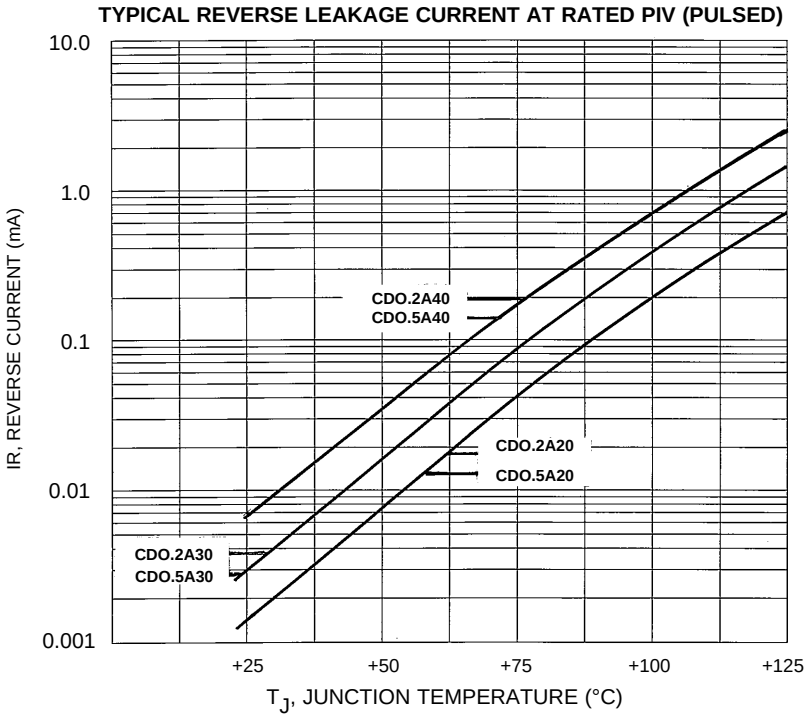



**FIGURE 1**

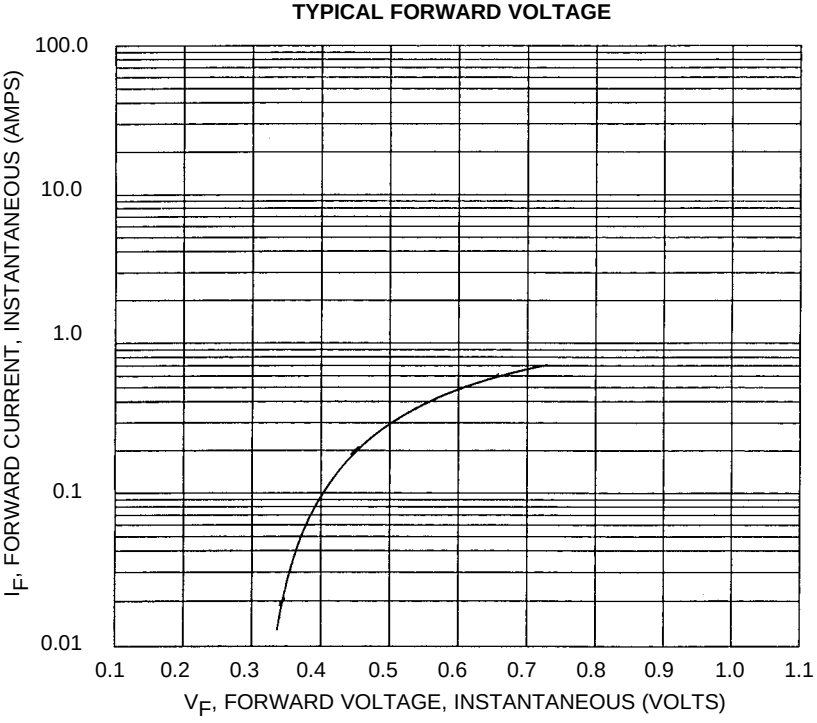



**FIGURE 2**