

- 1N6677UR-1 AVAILABLE IN JAN, JANTX, JANTXV AND JANS PER MIL-PRF-19500/610
- 0.2 & 0.5 AMP SCHOTTKY BARRIER RECTIFIERS
- HERMETICALLY SEALED
- LEADLESS PACKAGE FOR SURFACE MOUNT
- METALLURGICALLY BONDED
- DOUBLE PLUG CONSTRUCTION

1N6677UR-1  
and  
CDLL6675 thru CDLL6677  
and  
CDLL0.2A20 thru 40  
and  
CDLL0.5A20 thru 40

### 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 @  $T_{EC} = +100^\circ\text{C}$   
Derating: 8.0 mA / °C above +100°C

ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise specified.

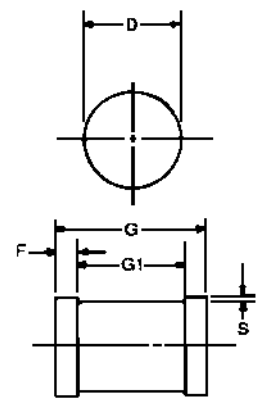
| CDI TYPE NUMBER | WORKING PEAK REVERSE VOLTAGE | MAXIMUM FORWARD VOLTAGE |               |                | MAXIMUM REVERSE LEAKAGE CURRENT AT RATED VOLTAGE |                           | MAXIMUM CAPACITANCE @ $V_R = 0$ VOLTS $f = 1.0$ MHz |
|-----------------|------------------------------|-------------------------|---------------|----------------|--|---------------------------|---|
|                 |                              | $V_{RWM}$               | $V_F @ 20$ mA | $V_F @ 200$ mA | $V_F @ 630$ mA                                   | $I_R @ +25^\circ\text{C}$ | $I_R @ +100^\circ\text{C}$                          |
|                 | VOLTS                        | VOLTS                   | VOLTS         | VOLTS          | $\mu\text{A}$                                    | mA                        | PICO FARADS   |
| CDLL6675        | 20                           | 0.37                    | 0.50          | 0.70           | 5.0  | 0.6                       | 50  |
| CDLL6676        | 30                           | 0.37                    | 0.50          | 0.70           | 5.0  | 0.6                       | 50  |
| CDLL6677        | 40                           | 0.37                    | 0.50          | 0.70           | 5.0  | 0.6                       | 50  |
| CDLL0.2A20      | 20                           | 0.37                    | 0.50          | 0.70           | 5.0  | 0.6                       | 50  |
| CDLL0.2A30      | 30                           | 0.37                    | 0.50          | 0.70           | 5.0  | 0.6                       | 50  |
| CDLL0.2A40      | 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 @  $T_{EC} = +75^\circ\text{C}$   
Derating: 6.67 mA / °C above  $T_{EC} = +75^\circ\text{C}$

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 |
|-----------------|------------------------------|-------------------------|---------------------|--|----------------------------|---|
|                 |                              | $V_F @ 0.1\text{A}$     | $V_F @ 0.5\text{A}$ | $I_R @ +25^\circ\text{C}$                        | $I_R @ +100^\circ\text{C}$ | $C_T$   |
|                 | VOLTS                        | VOLTS                   | VOLTS               | $\mu\text{A}$                                    | mA                         | PICO FARADS   |
| CDLL0.5A20      | 20                           | 0.50                    | 0.65                | 10.0   | 1.0                        | 50  |
| CDLL0.5A30      | 30                           | 0.50                    | 0.65                | 10.0   | 1.0                        | 50  |
| CDLL0.5A40      | 40                           | 0.50                    | 0.65                | 10.0   | 1.0                        | 50  |



| DIM | MILLIMETERS |      | INCHES    |       |
|-----|-------------|------|-----------|-------|
|     | MIN         | MAX  | MIN       | MAX   |
| D   | 1.60        | 1.70 | 0.063     | 0.067 |
| F   | 0.41        | 0.55 | 0.016     | 0.022 |
| G   | 3.30        | 3.70 | .130      | .146  |
| G1  | 2.54 REF.   |      | .100 REF. |       |
| S   | 0.03 MIN.   |      | .001 MIN. |       |

FIGURE 1

### DESIGN DATA

**CASE:** DO-213AA, Hermetically sealed glass case. (MELF, SOD-80, LL34)

**LEAD FINISH:** Tin / Lead

**THERMAL RESISTANCE:** ( $R_{\theta JEC}$ ): 100 °C/W maximum at L = 0 inch

**THERMAL IMPEDANCE:** ( $Z_{JX}$ ): 20 °C/W maximum

**POLARITY:** Cathode end is banded.

**MOUNTING SURFACE SELECTION:** The Axial Coefficient of Expansion (COE) Of this Device is Approximately +6PPM/°C. The COE of the Mounting Surface System Should Be Selected To Provide A Suitable Match With This Device.



**COMPENSATED DEVICES INCORPORATED**

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# CDLL6675 thru CDLL6677 and CDLL0.2A20 thru CDLL0.2A40 and CDLL0.5A20 thru CDLL0.5A40

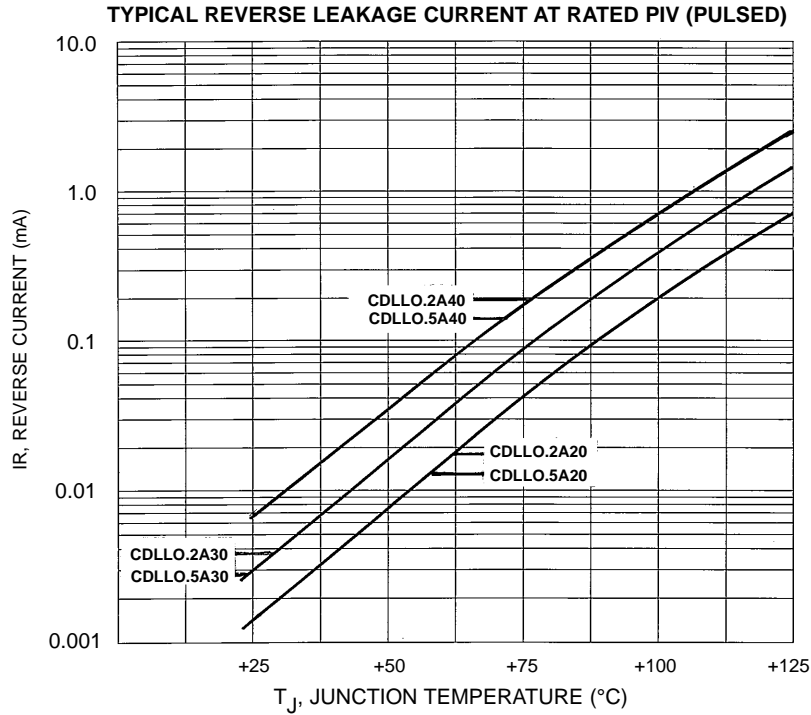


FIGURE 1

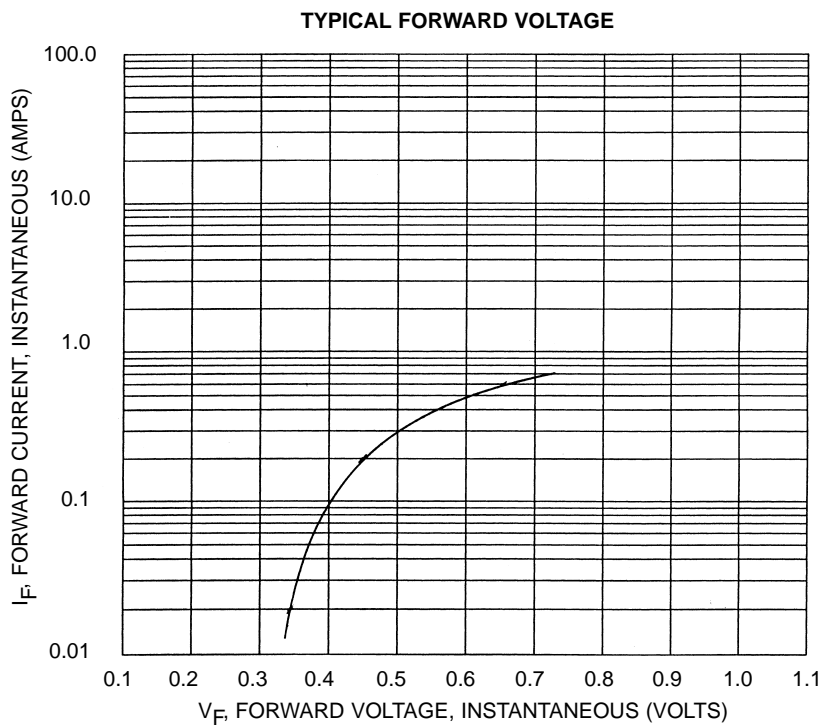


FIGURE 2