

- 1N5819UR-1 AND 1N6761UR-1 AVAILABLE IN JAN, JANTX, JANTXV AND JANS PER MIL-PRF-19500/586
- 1 AMP SCHOTTKY BARRIER RECTIFIERS
- HERMETICALLY SEALED
- LEADLESS PACKAGE FOR SURFACE MOUNT
- METALLURGICALLY BONDED

**1N5819UR**  
and  
**CDLL5817 thru CDLL5819**  
and  
**CDLL6759 thru CDLL6761**  
and  
**CDLL1A20 thru CDLL1A100**

## MAXIMUM RATINGS

Operating Temperature: -55°C to +125°C  
Storage Temperature: -55°C to +150°C  
Average Rectified Forward Current: 1.0 AMP @  $T_{EC} = +55^{\circ}\text{C}$   
Derating: 14 mA / °C above  $T_{EC} = +55^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise specified.

| CDI<br>TYPE<br>NUMBER    | WORKING PEAK<br>REVERSE<br>VOLTAGE | MAXIMUM FORWARD VOLTAGE |              |              | MAXIMUM REVERSE<br>LEAKAGE CURRENT<br>AT RATED VOLTAGE |                              |
|--------------------------|------------------------------------|-------------------------|--------------|--------------|--------------------------------------------------------|------------------------------|
|                          | $V_{RWM}$                          | $V_F @ 0.1A$            | $V_F @ 1.0A$ | $V_F @ 3.1A$ | $I_R @ +25^{\circ}\text{C}$                            | $I_R @ +100^{\circ}\text{C}$ |
|                          | VOLTS                              | VOLTS                   | VOLTS        | VOLTS        | mA                                                     | mA                           |
| CDLL5817                 | 20                                 | 0.36                    | 0.60         | 0.9          | 0.1                                                    | 5.0                          |
| CDLL5818                 | 30                                 | 0.36                    | 0.60         | 0.9          | 0.1                                                    | 5.0                          |
| CDLL5819                 | 40                                 | 0.36                    | 0.60         | 0.9          | 0.1                                                    | 5.0                          |
| J,JX,JV & JS<br>5819UR-1 | 45                                 | 0.34                    | 0.49         | 0.8          | 0.05                                                   | 5.0                          |
| CDLL6759                 | 60                                 | 0.38                    | 0.69         | N/A          | 0.1                                                    | 6.0                          |
| CDLL6760                 | 80                                 | 0.38                    | 0.69         | N/A          | 0.1                                                    | 6.0                          |
| CDLL6761                 | 100                                | 0.38                    | 0.69         | N/A          | 0.1                                                    | 6.0                          |
| J,JX,JV & JS<br>6761UR-1 | 100                                | 0.38                    | 0.69         | N/A          | 0.10                                                   | 12.0                         |
| CDLL1A20                 | 20                                 | 0.36                    | 0.60         | 0.9          | 0.1                                                    | 5.0                          |
| CDLL1A30                 | 30                                 | 0.36                    | 0.60         | 0.9          | 0.1                                                    | 5.0                          |
| CDLL1A40                 | 40                                 | 0.36                    | 0.60         | 0.9          | 0.1                                                    | 5.0                          |
| CDLL1A50                 | 50                                 | 0.36                    | 0.60         | 0.9          | 0.1                                                    | 5.0                          |
| CDLL1A60                 | 60                                 | 0.38                    | 0.69         | N/A          | 0.1                                                    | 12.0                         |
| CDLL1A80                 | 80                                 | 0.38                    | 0.69         | N/A          | 0.1                                                    | 12.0                         |
| CDLL1A100                | 100                                | 0.38                    | 0.69         | N/A          | 0.1                                                    | 12.0                         |

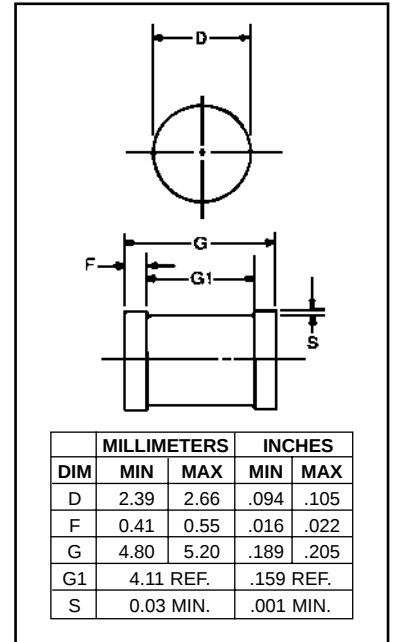


FIGURE 1

## DESIGN DATA

**CASE:** DO-213AB, Hermetically sealed glass case. (MELF, LL41)

**LEAD FINISH:** Tin / Lead

**THERMAL RESISTANCE:** ( $R_{\theta JC}$ ): 40 °C/W maximum at L = 0 inch

**THERMAL IMPEDANCE:** ( $Z_{\theta JX}$ ): 12 °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.



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# CDLL5817 thru CDLL5819 and CDLL6759 thru CDLL6761 and CDLL1A20 thru CDLL1A100

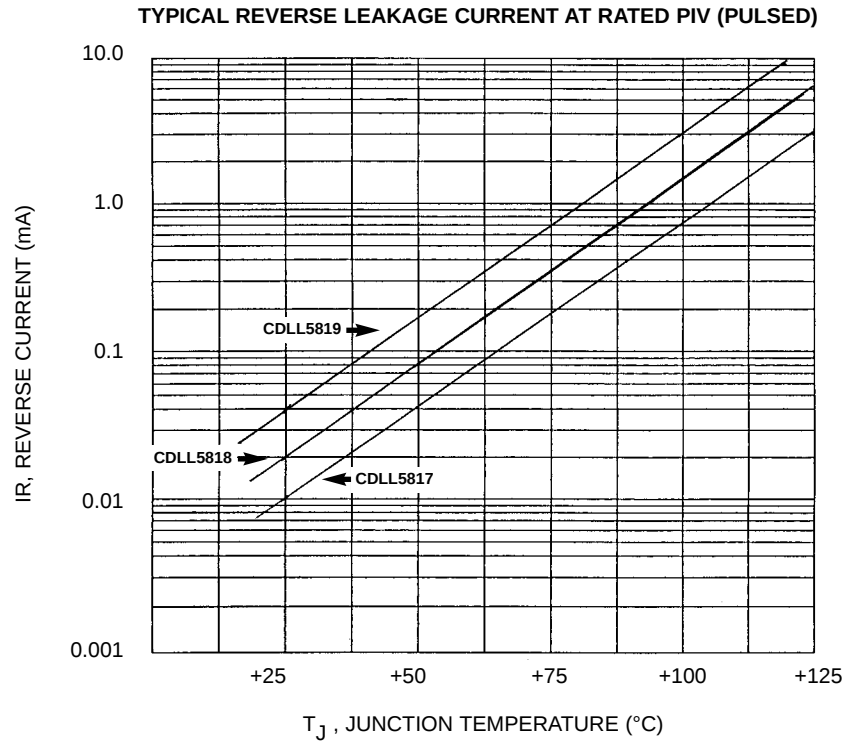


FIGURE 1

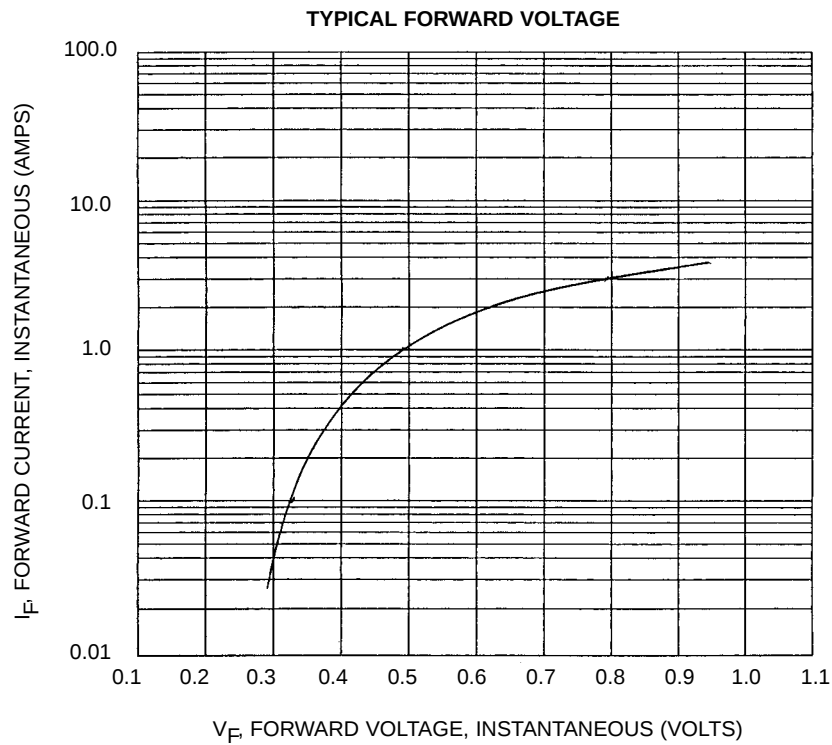


FIGURE 2