- 1N5822US AVAILABLE IN JAN, JANTX, JANTXV AND JANS
- 3 AMP SCHOTTKY BARRIER RECTIFIERS
- HERMETICALLY SEALED
- LEADLESS PACKAGE FOR SURFACE MOUNT
- METALLURGICALLY BONDED, DOUBLE PLUG CONSTRUCTION

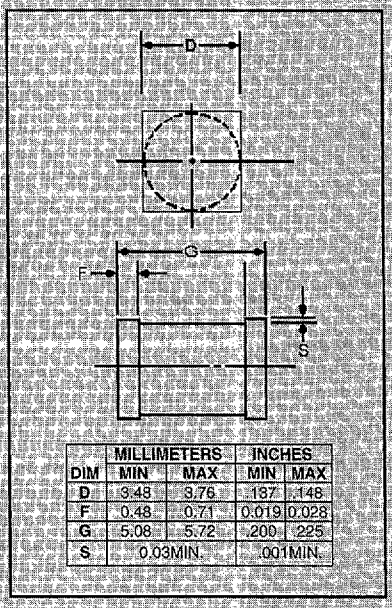
1N5822US and CDLL5820 thru CDLL5822 and CDLL3A20 thru CDLL3A40

MAXIMUM RATINGS

Operating Temperature: -65°C to +125°C
Storage Temperature: -65°C to +150°C
Average Rectified Forward Current: 3.0 AMP, T_{EC} = +55°C
Derating: 43 mW / °C above T_{EC} = +55°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	
	V_{RWM}	V_{F} @ 1.0A	V_{F} @ 3.0A	V_{F} @ 9.4A	I_{R} @ 25°C	I_{R} @ 100°C
	VOLTS	VOLTS	VOLTS	VOLTS	mA	mA
CDLL5820	20	0.45	0.55	0.80	0.10	12.5
CDLL5821	30	0.45	0.55	0.80	0.10	12.5
CDLL5822	40	0.45	0.55	0.80	0.10	12.5
1N5822US (TX,TXV)	40	0.40	0.50	0.70	0.10	10.0
CDLL3A20	20	0.45	0.55	0.80	0.10	12.5
CDLL3A30	30	0.45	0.55	0.80	0.10	12.5
CDLL3A40	40	0.45	0.55	0.80	0.10	12.5



DIM	MILLIMETERS MIN	MILLIMETERS MAX	INCHES MIN	INCHES MAX
D	3.48	3.76	.137	.148
F	0.48	0.71	0.019	0.028
G	5.08	5.72	.200	.225
S	0.03MIN.		.001MIN.	

FIGURE 1

DESIGN DATA

CASE: D-5B, Hermetically sealed glass case.

LEAD FINISH: Tin / Lead

THERMAL RESISTANCE: Junction to End Cap = 10 °C/W maximum

POLARITY: Cathode end is identified

MOUNTING POSITION: ANY.

MOUNTING SURFACE SELECTION: The Axial Coefficient of Expansion (COE) of this device is approximately + 4PPM / °C. The COE of the Mounting Surface System should be selected to provide a suitable match with this device.

COMPENSATED DEVICES INCORPORATED
166 TREMONT STREET, MELROSE, MASSACHUSETTS 02176
PHONE (617) 665-1071 FAX (617) 665-7379
WWWSITE: http://www.cdi-diodes.com E-mail: mail@cdi-diodes.com

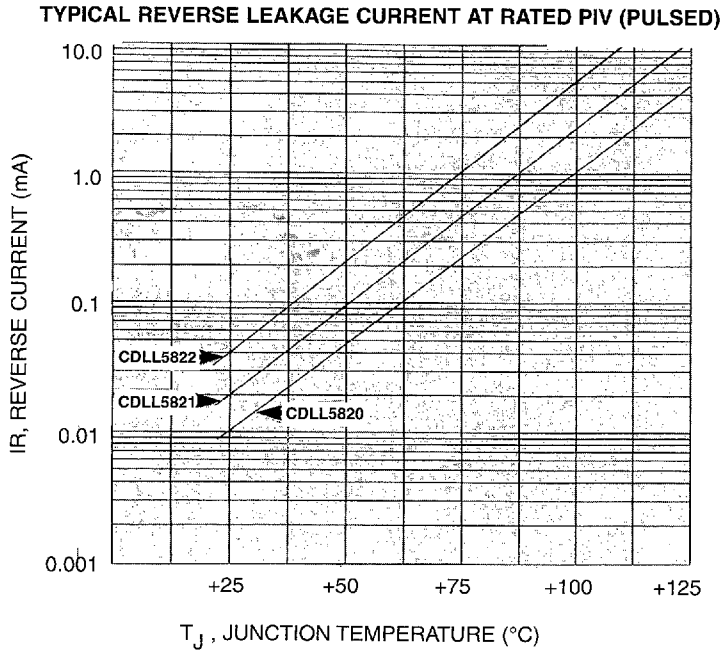


FIGURE 1

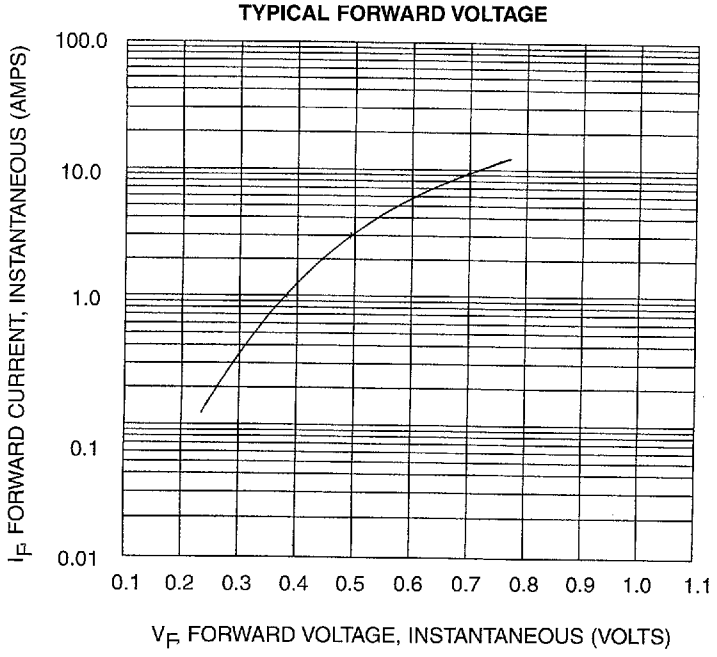


FIGURE 2