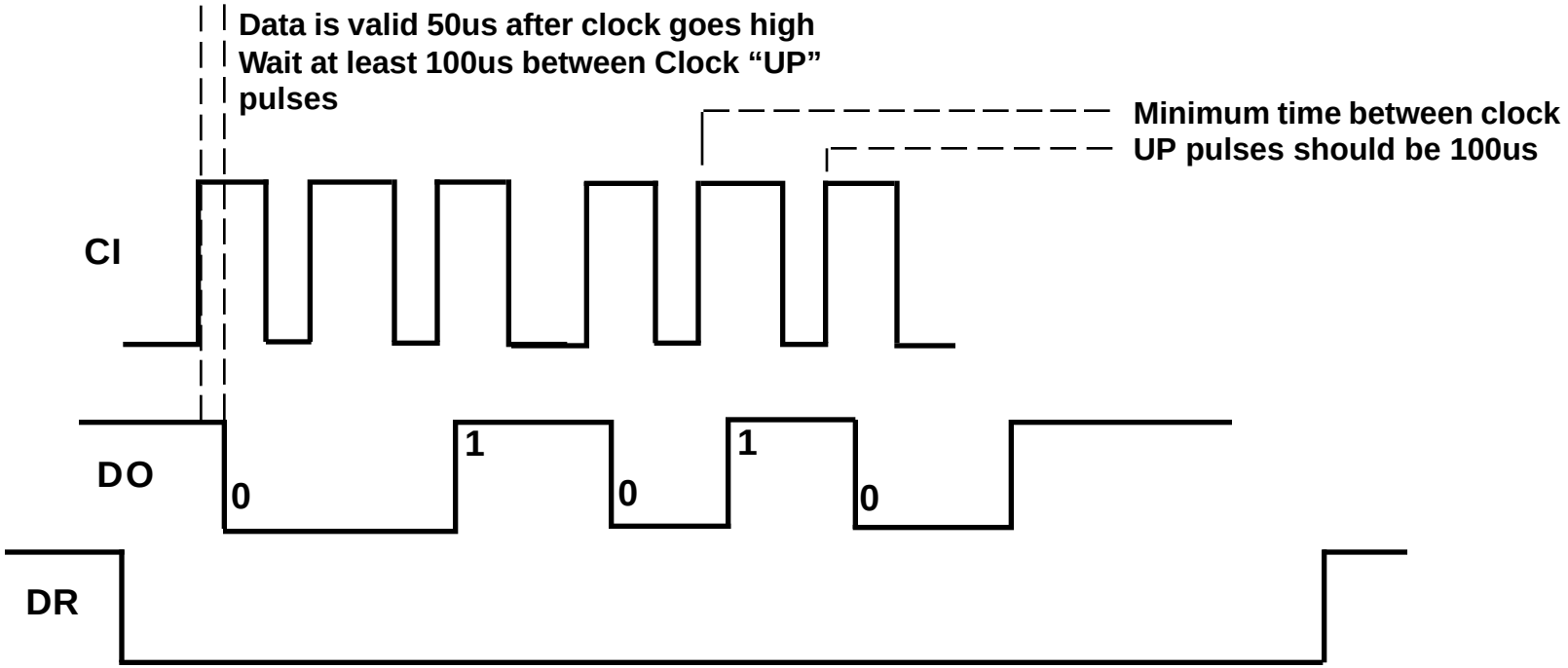
International Bar Code

DC1 Decoder Chip
Clocked Serial Interface



NOTES:

When the DC1 has decoded barcode data ready for transmission, **DR** will go low. Once **DR** is low, you can clock the DC1 by raising the **CI** line high. Data on the **DO** line will be valid **50us** after the clock (**CI**) line goes high. You should wait **100us** between clock "UP" pulses to guarantee that valid data can be presented on the **DO** line when the next clock UP pulse occurs.

Every 8 bits sent by the DC1 represents a character. The first 8 bits is a binary number which contains the number of characters which are to follow, so if this number is 10, you must do 80 more clocks. The last character is an **XOR** of all of the preceeding characters and is used for data validation. Data characters are ascii characters (30h="0", etc..). Each 8-bit character is sent with the low-order bit (bit 0) first.

Once all bits have been clocked, the **DR** line will return high.