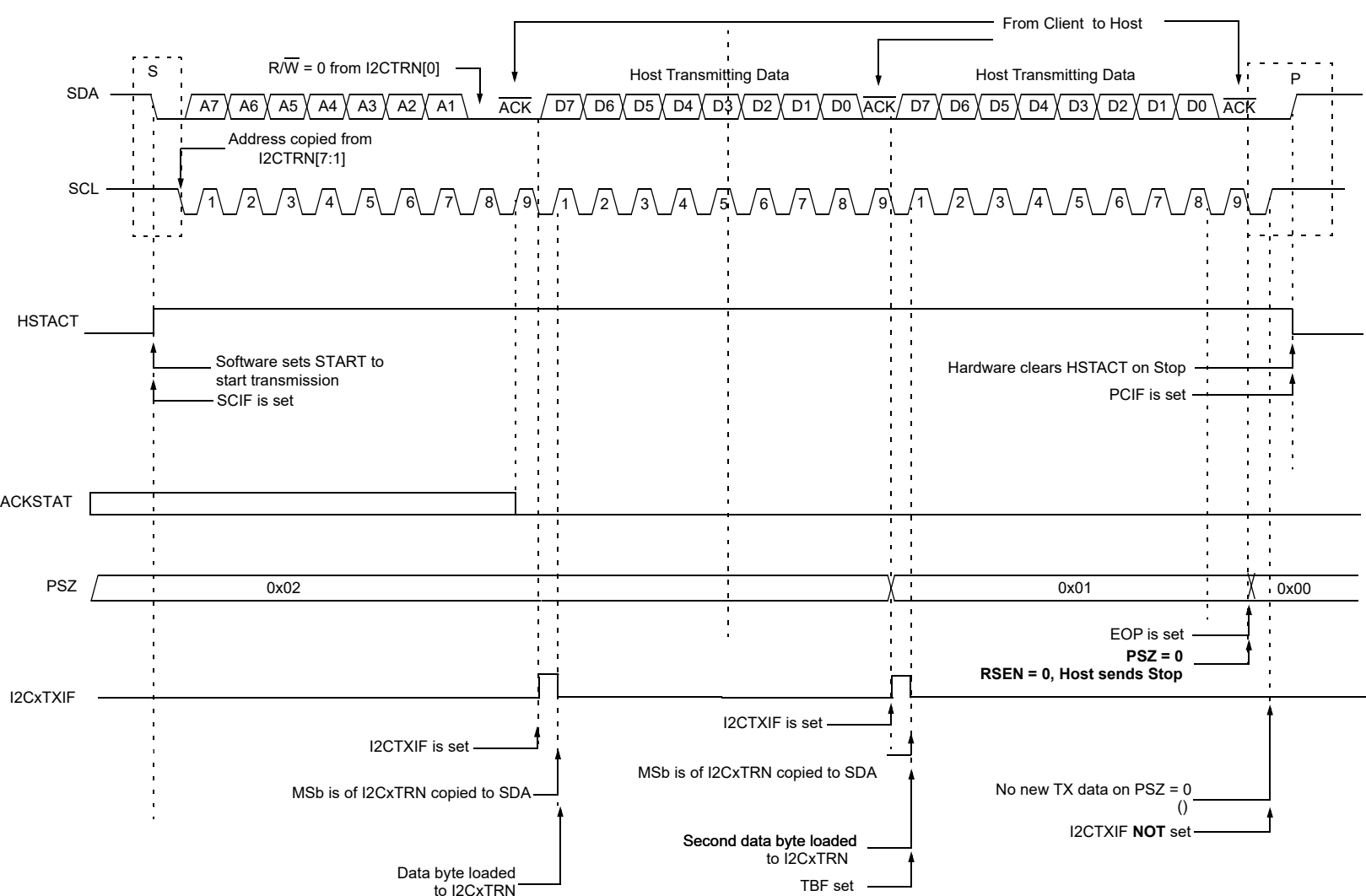
From Client to Host
S
R/W = 0 from I2CTRN[0]
Host Transmitting Data
Host Transmitting Data
P
SDA
A7 A6 A5 A4 A3 A2 A1 ACK D7 D6 D5 D4 D3 D2 D1 D0 ACK D7 D6 D5 D4 D3 D2 D1 D0 ACK
Address copied from I2CTRN[7:1]
SCL
1 2 3 4 5 6 7 8 9 1 2 3 4 5 6 7 8 9 1 2 3 4 5 6 7 8 9
HSTACT
Software sets START to start transmission
SCIF is set
Hardware clears HSTACT on Stop
PCIF is set
ACKSTAT
PSZ
0x02
0x01
0x00
EOP is set
PSZ = 0
RSEN = 0, Host sends Stop
I2CxTXIF
I2CTXIF is set
MSb is of I2CxTRN copied to SDA
Data byte loaded to I2CxTRN
I2CTXIF is set
MSb is of I2CxTRN copied to SDA
Second data byte loaded to I2CxTRN
TBF set
No new TX data on PSZ = 0
()
I2CTXIF NOT set