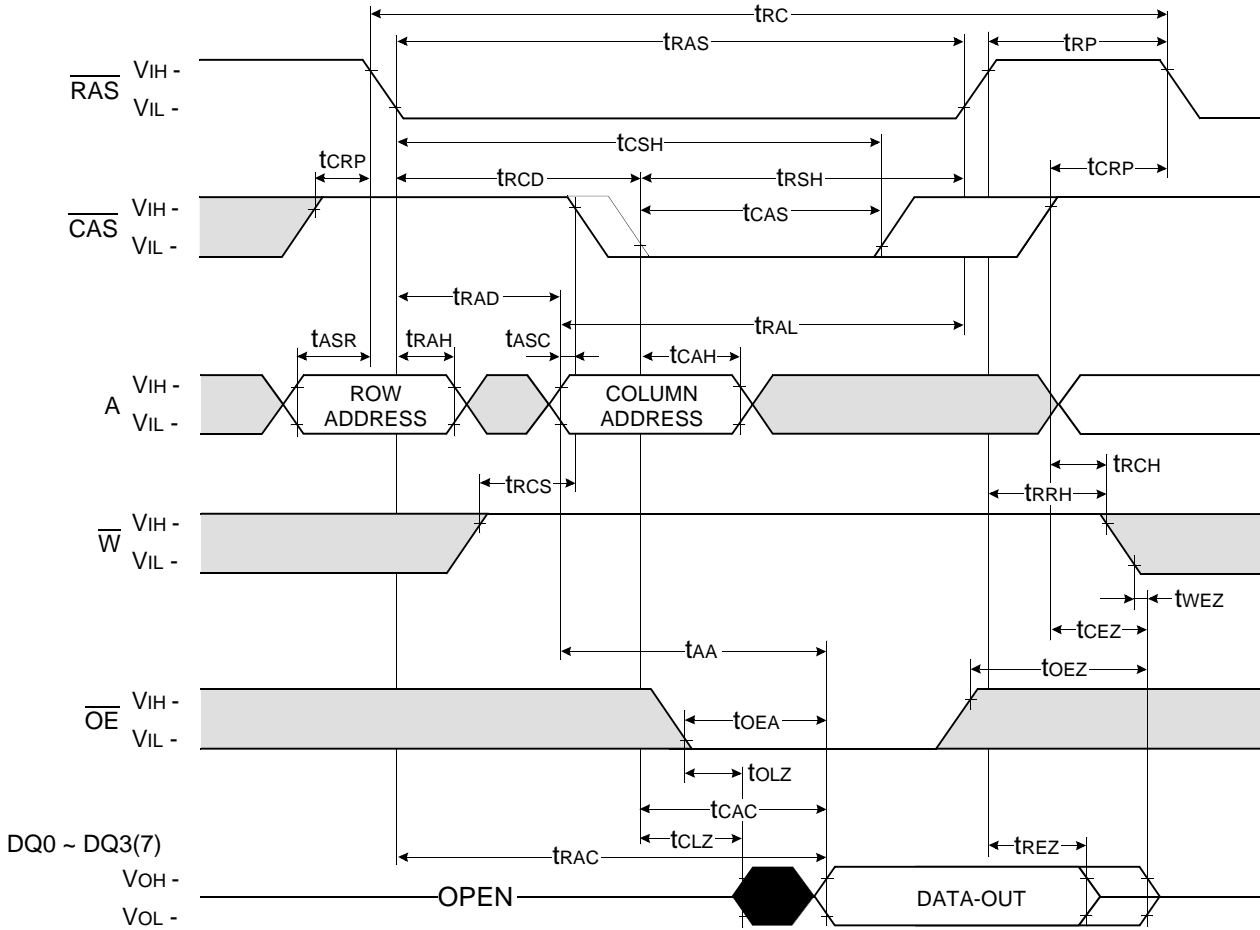
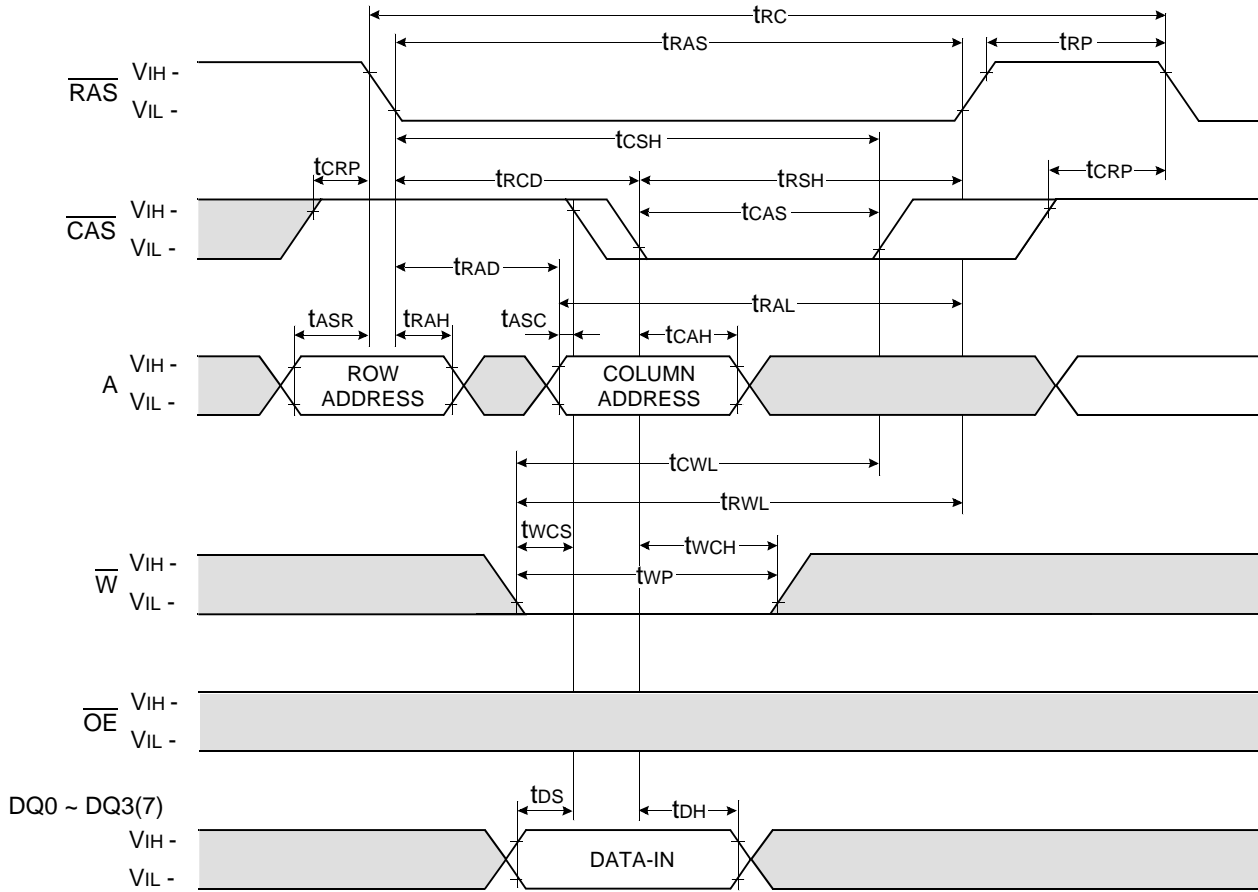


READ CYCLE



WRITE CYCLE (EARLY WRITE)

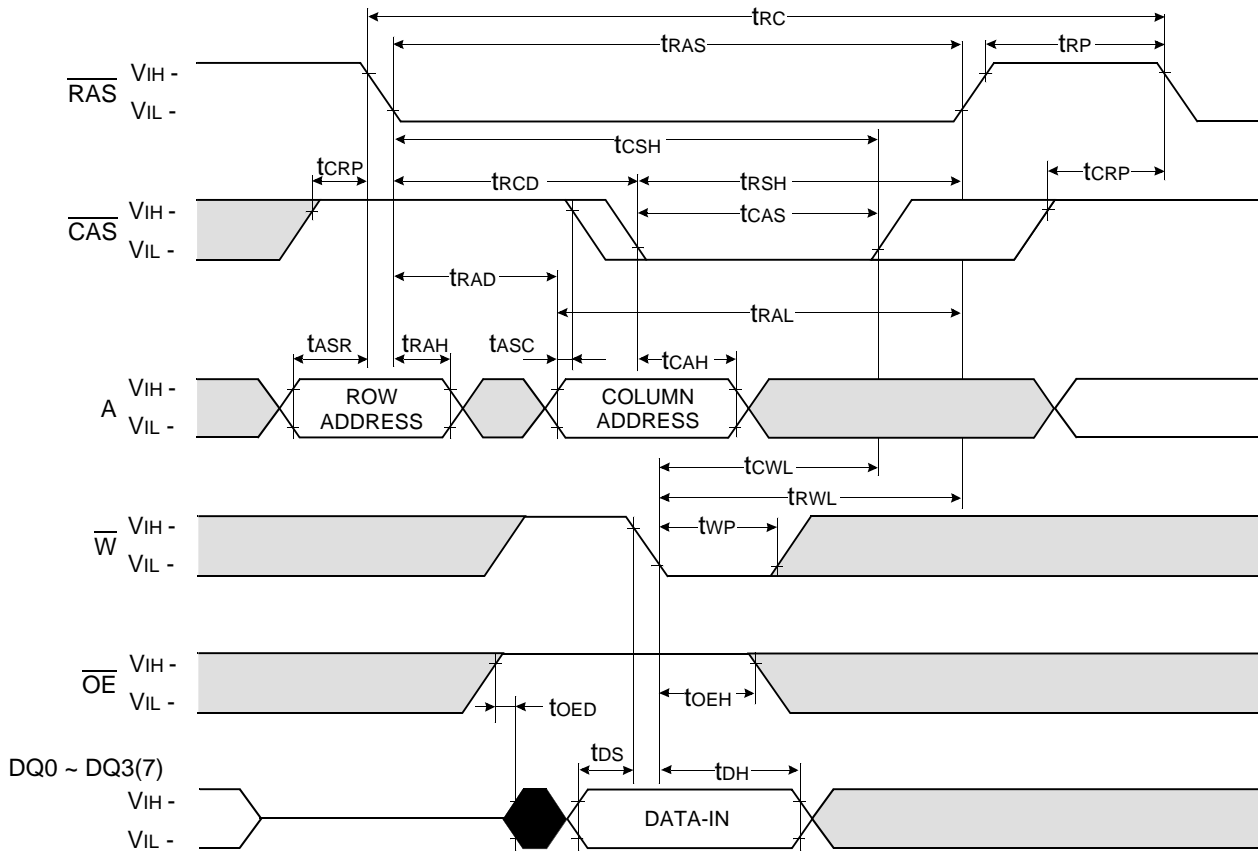
NOTE : DOUT = OPEN



Don't care
 Undefined

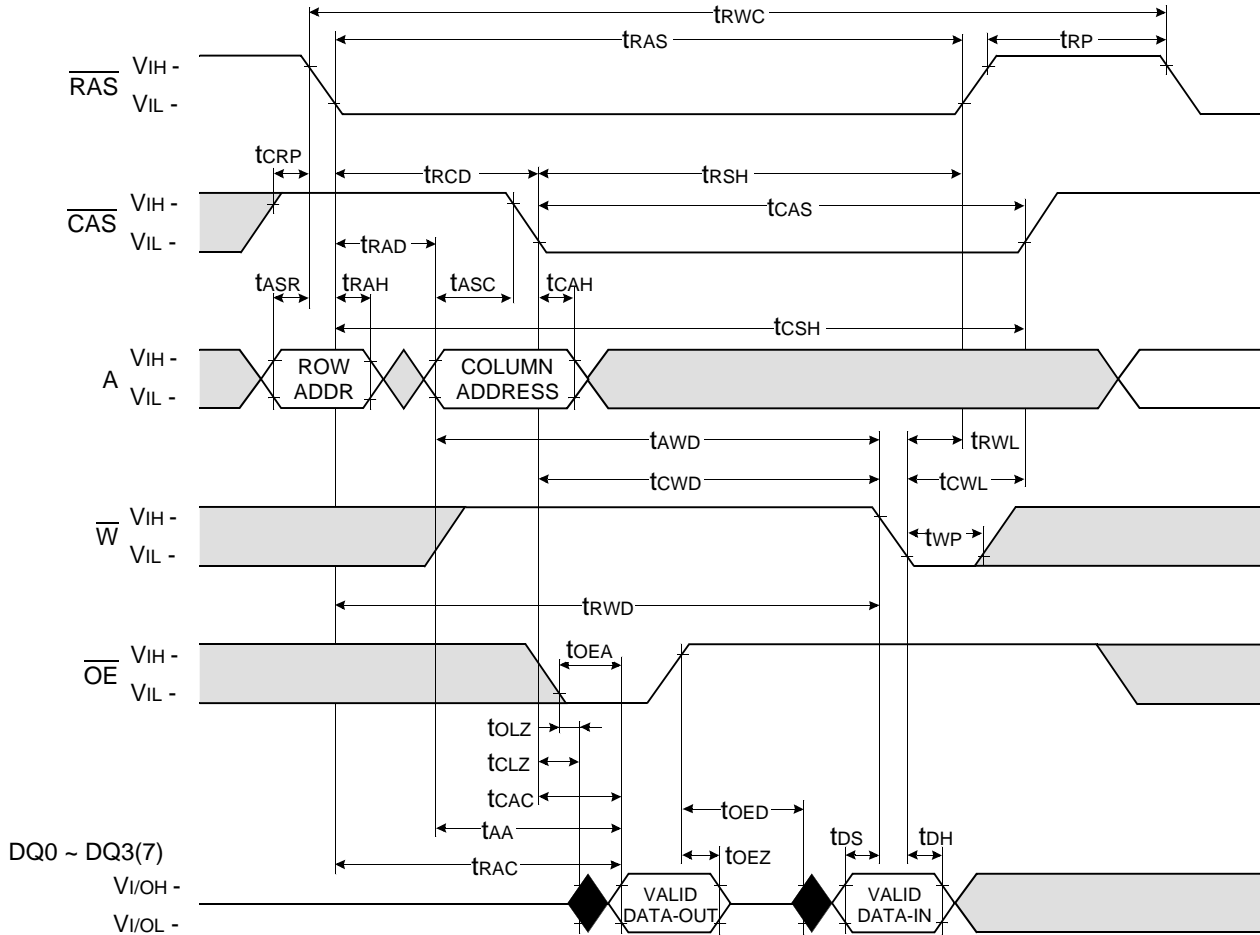
WRITE CYCLE (\overline{OE} CONTROLLED WRITE)

NOTE : DOUT = OPEN



Don't care
 Undefined

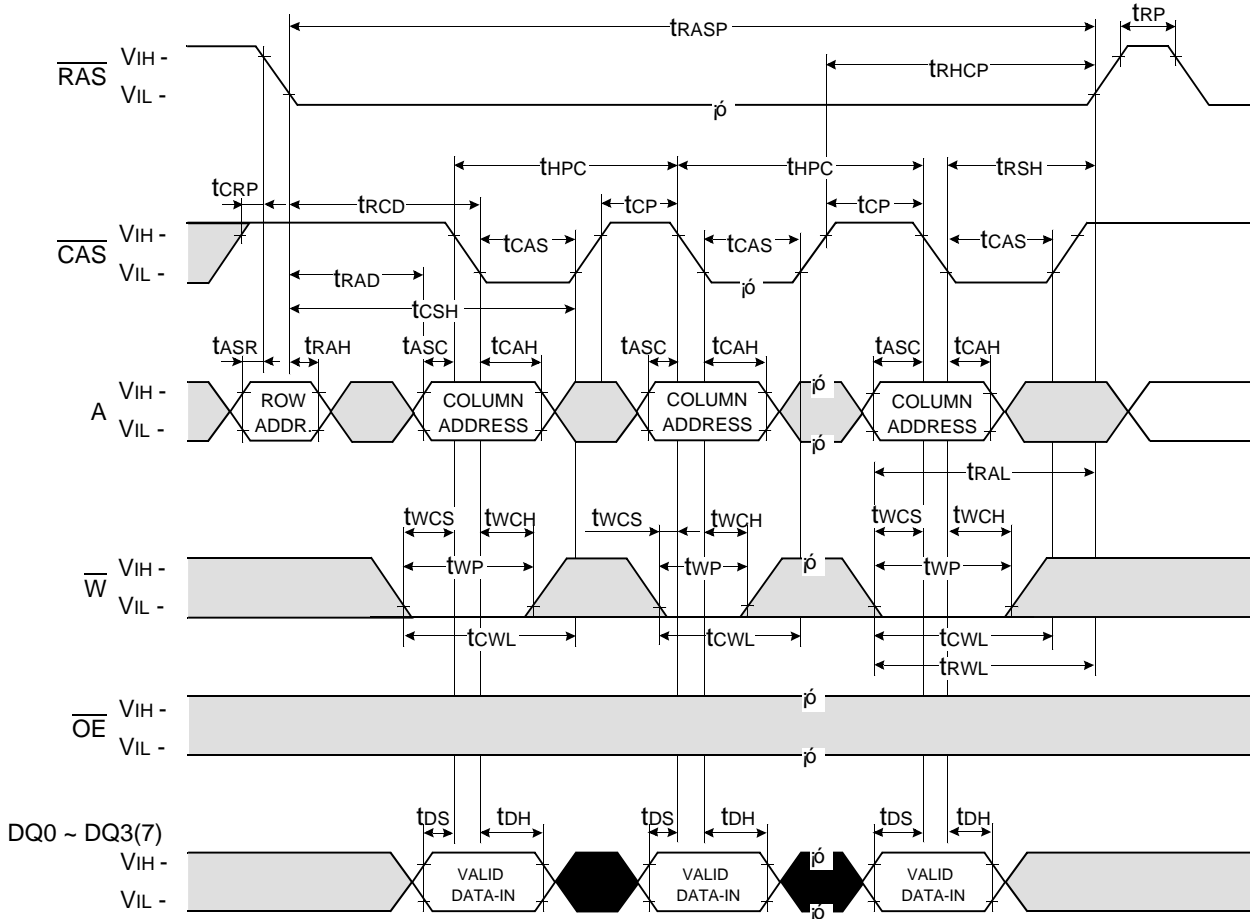
READ - MODIFY - WRITE CYCLE



Don't care
 Undefined

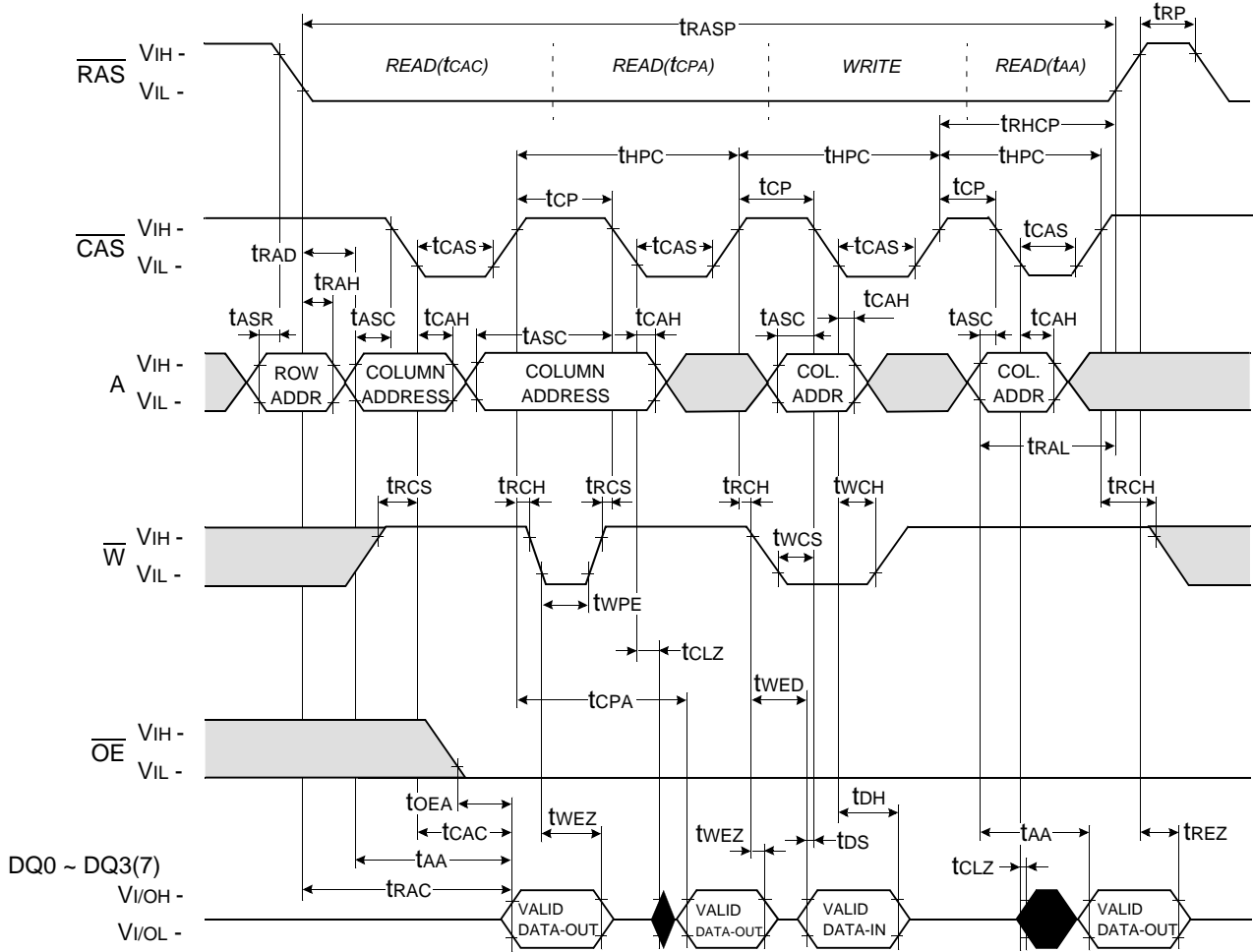
HYPER PAGE WRITE CYCLE (EARLY WRITE)

NOTE : DOUT = OPEN



Don't care
 Undefined

HYPER PAGE READ AND WRITE MIXED CYCLE

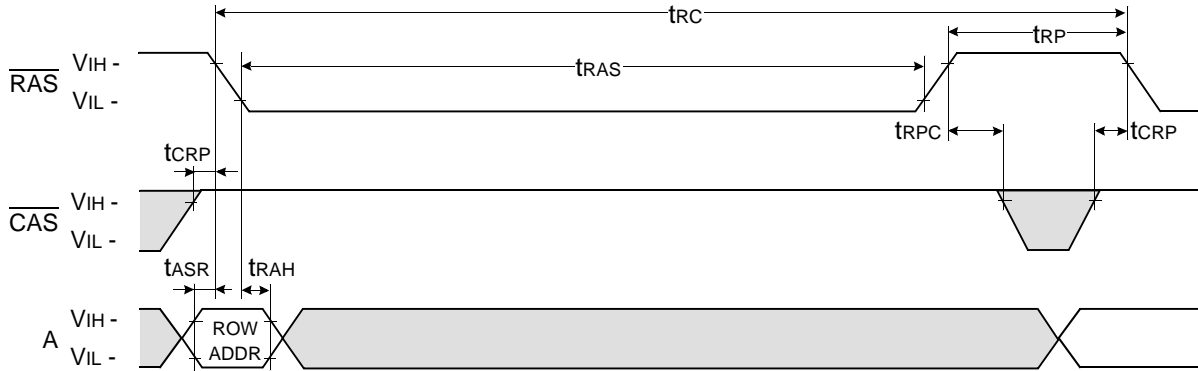


Don't care
 Undefined

$\overline{\text{RAS}}$ - ONLY REFRESH CYCLE*

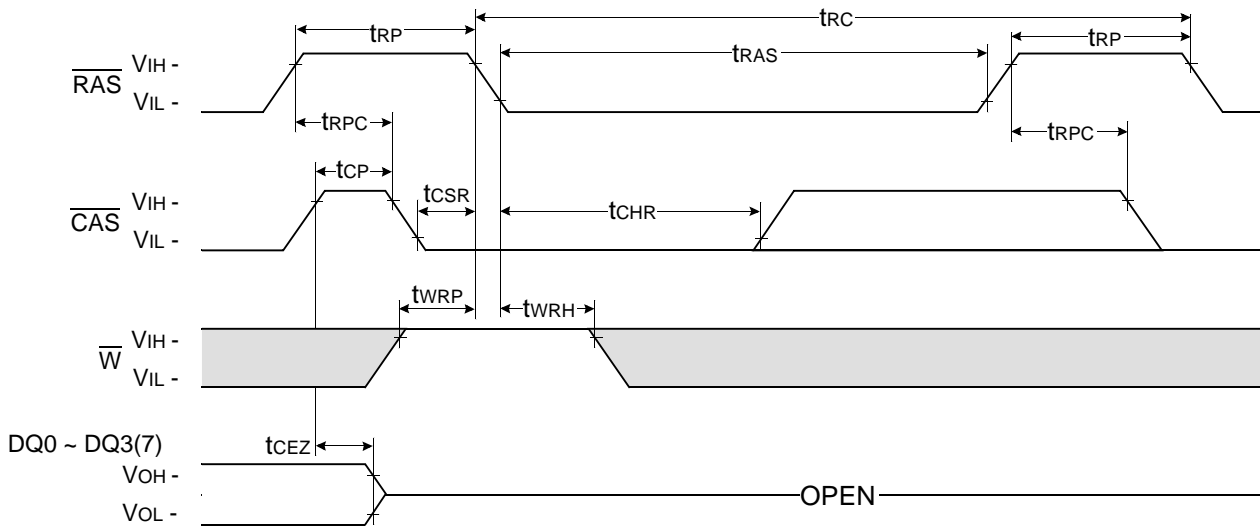
NOTE : $\overline{\text{W}}$, $\overline{\text{OE}}$, DIN = Don't care

DOUT = OPEN



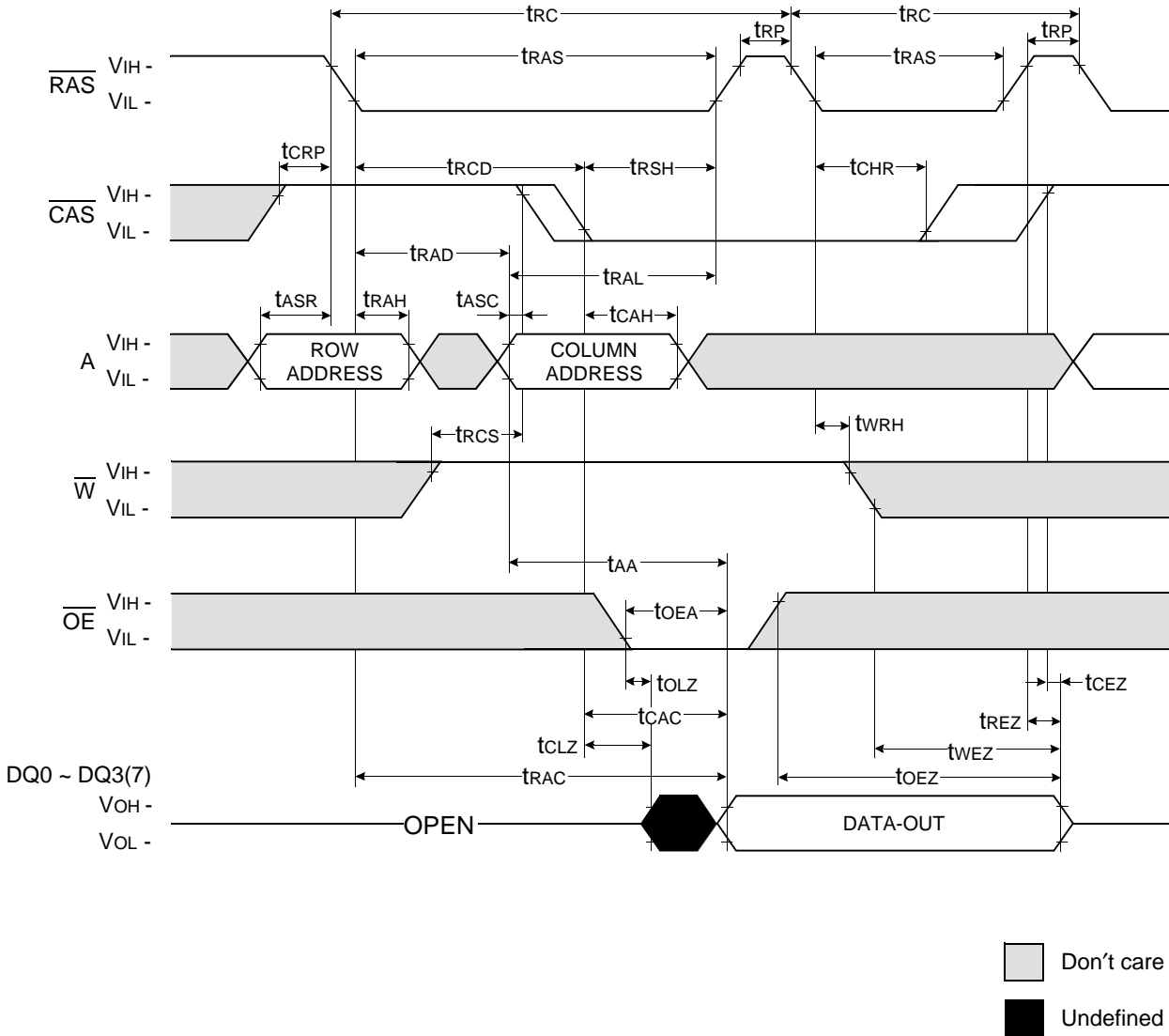
$\overline{\text{CAS}}$ - BEFORE - $\overline{\text{RAS}}$ REFRESH CYCLE

NOTE : $\overline{\text{OE}}$, A = Don't care



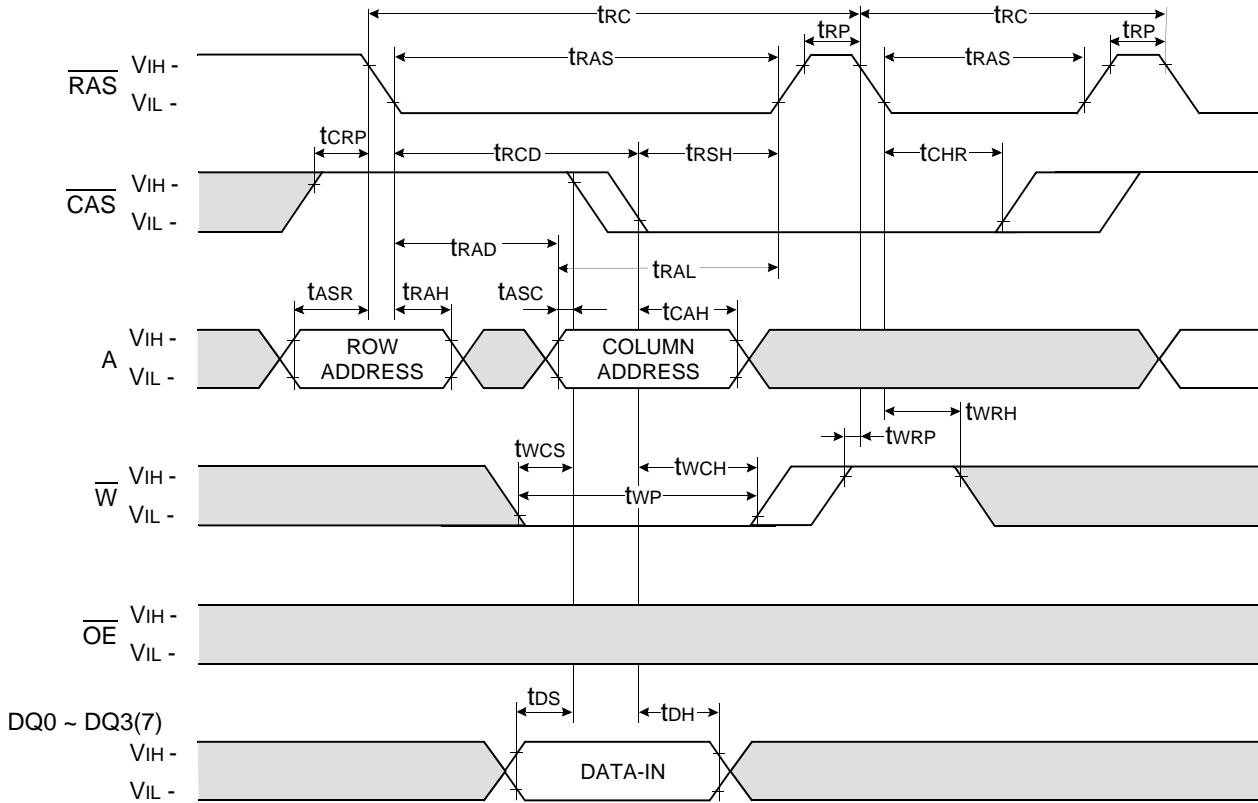
Don't care
 Undefined

HIDDEN REFRESH CYCLE (READ)



HIDDEN REFRESH CYCLE (WRITE)

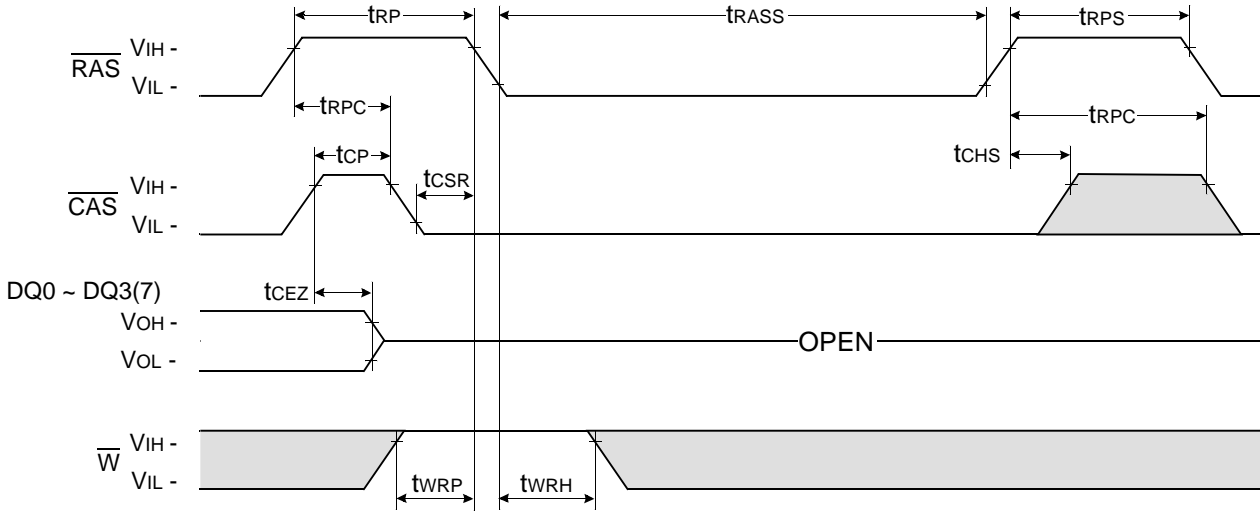
NOTE : DOUT = OPEN



Don't care
 Undefined

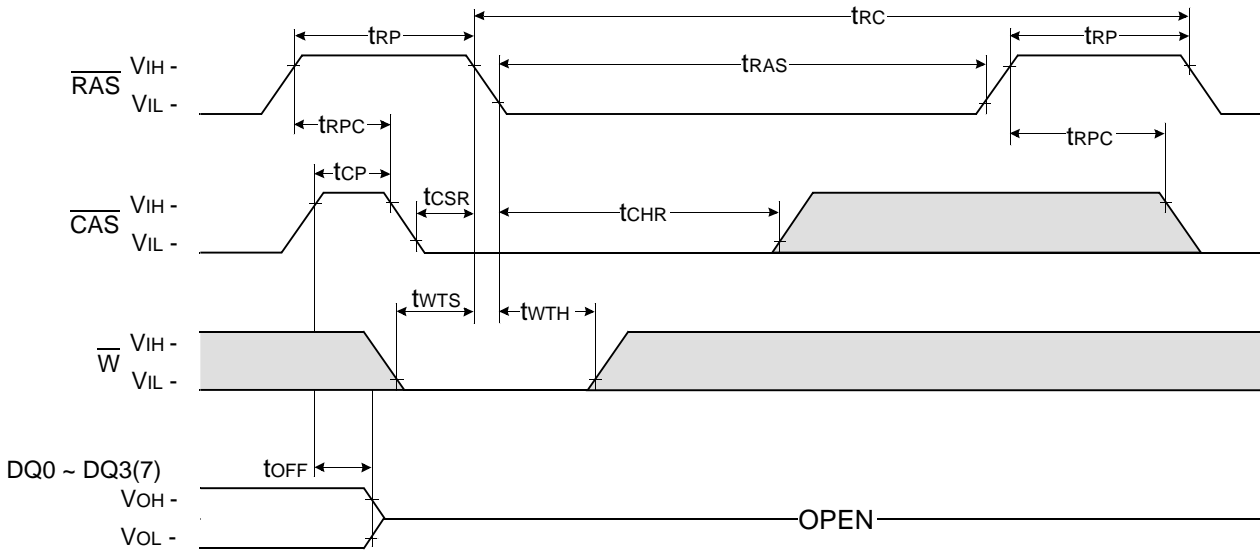
$\overline{\text{CAS}}$ - BEFORE - $\overline{\text{RAS}}$ SELF REFRESH CYCLE

NOTE : $\overline{\text{OE}}$, A = Don't care



TEST MODE IN CYCLE

NOTE : $\overline{\text{OE}}$, A = Don't care



□ Don't care
 ■ Undefined