$$\begin{array}{c|c}
\hline L_{bias} = I_{DS1} + I_{DS2} \\
\hline I_{out} = I_{DS1} - I_{DS2} \\
\hline I_{bias} = \frac{Vdm}{Veff} \sqrt{1 - \left(\frac{Vdm}{2Veff}\right)^2} \\
\hline I_{Ds1} = \mathcal{D} \\
\hline I_{Ds} = I_{bias}
\end{array}$$

$$\begin{array}{c|c}
\hline I_{Ds1} = I_{bias} \\
\hline I_{Ds2} = \mathcal{D} \\
\hline I_{Ds} = I_{bias}
\end{array}$$

if 
$$Vdm = J2 Veff \Rightarrow \frac{Iout}{Ibias} = J2 \times J1 - (\frac{J2}{2})^2 = J2 \times \frac{1}{J2} = 1$$

1) 
$$V_{imin}^{t}$$
  $V_{0}^{t}$   $V_{0}^{t}$ 







