```
da-outlinks-single  THM

⊢  ∀ltg:(IdLnk×Id×Type), i:Id, k:Knd, T:Type.
   (ltg ∈ da-outlinks(k : T;i))
   ⇒
   isrcv(k) & source(lnk(k)) = i
   & (1of(ltg) ~ lnk(k))
   & (1of(2of(ltg)) ~ tag(k))
   & 2of(2of(ltg)) = T
  by Unfold ‘guard‘ 0 THEN RepeatFor 5 (Analyze 0 THENA Complete Auto)
     THEN
     Repeat
     (Unfolds
      [‘fpf-dom-list‘
      ;‘da-outlink-f‘
      ;‘has-src‘
      ;‘isrcv‘
      ;‘lnk‘
      ;‘tagof‘
      ;‘da-outlinks‘
      ;‘fpf-single‘
      ;‘mapfilter‘]
      -1
      THEN
      Reduce -1)
     THEN
     AssertBY (¬(ltg ∈ nil))
     (RWO Thm* ∀x:T. (x ∈ nil) ⟺ False    {nil_member} 0)
     THEN
     DVar ‘k’
     THEN
     Unfold ‘fpf-ap‘ -2
     THEN
     Reduce -2
     THEN
     Unfolds [‘isrcv‘;‘lnk‘;‘tagof‘] 0
     THEN
     Reduce 0
     THEN
     Try (SplitOnHypITE -2 THEN Reduce -3)
     THEN
     Try (Complete Auto)
     THEN
     RWO Thm* ∀a,x:T. (x ∈ [a]) ⟺ x = a    {member_singleton} -3
     THEN
     HypSubst -3 0
     THEN
     Reduce 0
END
```