



* TL431A behavioral model by analog@ieee.org
 * Modifications: D6 added, R1 increased to 8Meg, model 2V5 changed to 1V25
 .subckt TLV431AS A K R
 R1 R A 8e6
 D4 A 4 1V25
 D5 A K Dc
 D1 R K Dc
 G2 K 4 6 A 90m
 G1 A 5 R 4 1
 C1 5 A 1n Rpar=1k
 R2 6 5 700k
 D2 4 R Dc
 D3 A 6 Di
 C2 K 6 40p Rser=6k Rpar=400k
 D6 A R Dc
 .model Di D(Ron=10m)
 .model Dc D(Ron=7 Vfwd=.6 Vrev=36)
 .model 1V25 D(Ron=.13 Vfwd=.6 Vrev=1.25 Roff=7k)
 .ends