

**PACKAGING INFORMATION**

| Orderable Device | Status<br>(1) | Package Type | Package Drawing | Pins | Package Qty | Eco Plan<br>(2) | Lead finish/<br>Ball material<br>(6) | MSL Peak Temp<br>(3) | Op Temp (°C) | Device Marking<br>(4/5) | Samples                 |
|------------------|---------------|--------------|-----------------|------|-------------|-----------------|--------------------------------------|----------------------|--------------|-------------------------|-------------------------|
| TLVH431ACDBVR    | ACTIVE        | SOT-23       | DBV             | 5    | 3000        | RoHS & Green    | NIPDAU   SN                          | Level-1-260C-UNLIM   | 0 to 70      | (Y3PG, Y3PJ, Y3PU)      | <a href="#">Samples</a> |
| TLVH431ACDBVT    | ACTIVE        | SOT-23       | DBV             | 5    | 250         | RoHS & Green    | NIPDAU   SN                          | Level-1-260C-UNLIM   | 0 to 70      | (Y3PG, Y3PJ, Y3PU)      | <a href="#">Samples</a> |
| TLVH431ACDBZR    | ACTIVE        | SOT-23       | DBZ             | 3    | 3000        | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | 0 to 70      | (Y3PS, Y3PU)            | <a href="#">Samples</a> |
| TLVH431ACDBZRG4  | ACTIVE        | SOT-23       | DBZ             | 3    | 3000        | RoHS & Green    | NIPDAUAG                             | Level-1-260C-UNLIM   | 0 to 70      | Y3PS                    | <a href="#">Samples</a> |
| TLVH431ACDBZT    | ACTIVE        | SOT-23       | DBZ             | 3    | 250         | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | 0 to 70      | (Y3PS, Y3PU)            | <a href="#">Samples</a> |
| TLVH431ACDCKR    | ACTIVE        | SC70         | DCK             | 6    | 3000        | RoHS & Green    | NIPDAU                               | Level-1-260C-UNLIM   | 0 to 70      | YPU                     | <a href="#">Samples</a> |
| TLVH431ACDCKT    | ACTIVE        | SC70         | DCK             | 6    | 250         | RoHS & Green    | NIPDAU                               | Level-1-260C-UNLIM   | 0 to 70      | YPU                     | <a href="#">Samples</a> |
| TLVH431ACLP      | OBSOLETE      | TO-92        | LP              | 3    |             | TBD             | Call TI                              | Call TI              | 0 to 70      | ZA431A                  |                         |
| TLVH431ACLPR     | ACTIVE        | TO-92        | LP              | 3    | 2000        | RoHS & Green    | SN                                   | N / A for Pkg Type   | 0 to 70      | ZA431A                  | <a href="#">Samples</a> |
| TLVH431ACPK      | ACTIVE        | SOT-89       | PK              | 3    | 1000        | RoHS & Green    | SN                                   | Level-2-260C-1 YEAR  | 0 to 70      | W2                      | <a href="#">Samples</a> |
| TLVH431AIDBVR    | ACTIVE        | SOT-23       | DBV             | 5    | 3000        | RoHS & Green    | NIPDAU   SN                          | Level-1-260C-UNLIM   | -40 to 85    | (Y3TJ, Y3TU)            | <a href="#">Samples</a> |
| TLVH431AIDBVT    | ACTIVE        | SOT-23       | DBV             | 5    | 250         | RoHS & Green    | NIPDAU   SN                          | Level-1-260C-UNLIM   | -40 to 85    | (Y3TJ, Y3TU)            | <a href="#">Samples</a> |
| TLVH431AIDBZR    | ACTIVE        | SOT-23       | DBZ             | 3    | 3000        | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | -40 to 85    | (Y3T3, Y3TS, Y3TU)      | <a href="#">Samples</a> |
| TLVH431AIDBZT    | ACTIVE        | SOT-23       | DBZ             | 3    | 250         | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | -40 to 85    | (Y3TS, Y3TU)            | <a href="#">Samples</a> |
| TLVH431AIDBZTG4  | ACTIVE        | SOT-23       | DBZ             | 3    | 250         | RoHS & Green    | NIPDAUAG                             | Level-1-260C-UNLIM   | -40 to 85    | Y3TS                    | <a href="#">Samples</a> |
| TLVH431AIDCKR    | ACTIVE        | SC70         | DCK             | 6    | 3000        | RoHS & Green    | NIPDAU                               | Level-1-260C-UNLIM   | -40 to 85    | YTU                     | <a href="#">Samples</a> |
| TLVH431AIDCKT    | ACTIVE        | SC70         | DCK             | 6    | 250         | RoHS & Green    | NIPDAU                               | Level-1-260C-UNLIM   | -40 to 85    | YTU                     | <a href="#">Samples</a> |
| TLVH431AILP      | OBSOLETE      | TO-92        | LP              | 3    |             | TBD             | Call TI                              | Call TI              | -40 to 85    | ZB431A                  |                         |
| TLVH431AILPR     | ACTIVE        | TO-92        | LP              | 3    | 2000        | RoHS & Green    | SN                                   | N / A for Pkg Type   | -40 to 85    | ZB431A                  | <a href="#">Samples</a> |

| Orderable Device | Status<br>(1) | Package Type | Package Drawing | Pins | Package Qty | Eco Plan<br>(2) | Lead finish/<br>Ball material<br>(6) | MSL Peak Temp<br>(3) | Op Temp (°C) | Device Marking<br>(4/5) | Samples                 |
|------------------|---------------|--------------|-----------------|------|-------------|-----------------|--------------------------------------|----------------------|--------------|-------------------------|-------------------------|
| TLVH431AIPK      | ACTIVE        | SOT-89       | PK              | 3    | 1000        | RoHS & Green    | SN                                   | Level-2-260C-1 YEAR  | -40 to 85    | W3                      | <a href="#">Samples</a> |
| TLVH431AQDBVR    | ACTIVE        | SOT-23       | DBV             | 5    | 3000        | RoHS & Green    | NIPDAU   SN                          | Level-1-260C-UNLIM   | -40 to 125   | (Y3NJ, Y3NS, Y3NU)      | <a href="#">Samples</a> |
| TLVH431AQDBVT    | ACTIVE        | SOT-23       | DBV             | 5    | 250         | RoHS & Green    | NIPDAU   SN                          | Level-1-260C-UNLIM   | -40 to 125   | (Y3NJ, Y3NU)            | <a href="#">Samples</a> |
| TLVH431AQDBZR    | ACTIVE        | SOT-23       | DBZ             | 3    | 3000        | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | -40 to 125   | (Y3NS, Y3NU)            | <a href="#">Samples</a> |
| TLVH431AQDBZT    | ACTIVE        | SOT-23       | DBZ             | 3    | 250         | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | -40 to 125   | (Y3NS, Y3NU)            | <a href="#">Samples</a> |
| TLVH431AQDBZTG4  | ACTIVE        | SOT-23       | DBZ             | 3    | 250         | RoHS & Green    | NIPDAUAG                             | Level-1-260C-UNLIM   | -40 to 125   | Y3NS                    | <a href="#">Samples</a> |
| TLVH431AQDCKR    | ACTIVE        | SC70         | DCK             | 6    | 3000        | RoHS & Green    | NIPDAU                               | Level-1-260C-UNLIM   | -40 to 125   | YNU                     | <a href="#">Samples</a> |
| TLVH431AQDCKRG4  | ACTIVE        | SC70         | DCK             | 6    | 3000        | RoHS & Green    | NIPDAU                               | Level-1-260C-UNLIM   |              | YNU                     | <a href="#">Samples</a> |
| TLVH431AQDCKT    | ACTIVE        | SC70         | DCK             | 6    | 250         | RoHS & Green    | NIPDAU                               | Level-1-260C-UNLIM   | -40 to 125   | YNU                     | <a href="#">Samples</a> |
| TLVH431AQLP      | OBSOLETE      | TO-92        | LP              | 3    |             | TBD             | Call TI                              | Call TI              | -40 to 125   | ZD431A                  |                         |
| TLVH431AQLPR     | ACTIVE        | TO-92        | LP              | 3    | 2000        | RoHS & Green    | SN                                   | N / A for Pkg Type   | -40 to 125   | ZD431A                  | <a href="#">Samples</a> |
| TLVH431AQPK      | ACTIVE        | SOT-89       | PK              | 3    | 1000        | RoHS & Green    | SN                                   | Level-2-260C-1 YEAR  | -40 to 125   | VD                      | <a href="#">Samples</a> |
| TLVH431BCDBVR    | ACTIVE        | SOT-23       | DBV             | 5    | 3000        | RoHS & Green    | NIPDAU   SN                          | Level-1-260C-UNLIM   | 0 to 70      | (Y3JJ, Y3JU)            | <a href="#">Samples</a> |
| TLVH431BCDBVT    | ACTIVE        | SOT-23       | DBV             | 5    | 250         | RoHS & Green    | NIPDAU   SN                          | Level-1-260C-UNLIM   | 0 to 70      | (Y3JJ, Y3JU)            | <a href="#">Samples</a> |
| TLVH431BCDBZR    | ACTIVE        | SOT-23       | DBZ             | 3    | 3000        | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | 0 to 70      | (Y3J3, Y3JS, Y3JU)      | <a href="#">Samples</a> |
| TLVH431BCDBZT    | ACTIVE        | SOT-23       | DBZ             | 3    | 250         | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | 0 to 70      | (Y3JS, Y3JU)            | <a href="#">Samples</a> |
| TLVH431BCDBZTG4  | ACTIVE        | SOT-23       | DBZ             | 3    | 250         | RoHS & Green    | NIPDAUAG                             | Level-1-260C-UNLIM   | 0 to 70      | Y3JS                    | <a href="#">Samples</a> |
| TLVH431BCDCKR    | ACTIVE        | SC70         | DCK             | 6    | 3000        | RoHS & Green    | NIPDAU                               | Level-1-260C-UNLIM   | 0 to 70      | YHU                     | <a href="#">Samples</a> |
| TLVH431BCDCKT    | ACTIVE        | SC70         | DCK             | 6    | 250         | RoHS & Green    | NIPDAU                               | Level-1-260C-UNLIM   | 0 to 70      | YHU                     | <a href="#">Samples</a> |
| TLVH431BCLP      | ACTIVE        | TO-92        | LP              | 3    | 1000        | RoHS & Green    | SN                                   | N / A for Pkg Type   | 0 to 70      | ZA431B                  | <a href="#">Samples</a> |

| Orderable Device | Status<br>(1) | Package Type | Package Drawing | Pins | Package Qty | Eco Plan<br>(2) | Lead finish/<br>Ball material<br>(6) | MSL Peak Temp<br>(3) | Op Temp (°C) | Device Marking<br>(4/5) | Samples                 |
|------------------|---------------|--------------|-----------------|------|-------------|-----------------|--------------------------------------|----------------------|--------------|-------------------------|-------------------------|
| TLVH431BCLPR     | ACTIVE        | TO-92        | LP              | 3    | 2000        | RoHS & Green    | SN                                   | N / A for Pkg Type   | 0 to 70      | ZA431B                  | <a href="#">Samples</a> |
| TLVH431BCPK      | ACTIVE        | SOT-89       | PK              | 3    | 1000        | RoHS & Green    | SN                                   | Level-2-260C-1 YEAR  | 0 to 70      | V7                      | <a href="#">Samples</a> |
| TLVH431BIDBVR    | ACTIVE        | SOT-23       | DBV             | 5    | 3000        | RoHS & Green    | NIPDAU   SN                          | Level-1-260C-UNLIM   | -40 to 85    | (Y3KJ, Y3KS, Y3KU)      | <a href="#">Samples</a> |
| TLVH431BIDBVT    | ACTIVE        | SOT-23       | DBV             | 5    | 250         | RoHS & Green    | NIPDAU   SN                          | Level-1-260C-UNLIM   | -40 to 85    | (Y3KJ, Y3KU)            | <a href="#">Samples</a> |
| TLVH431BIDBZR    | ACTIVE        | SOT-23       | DBZ             | 3    | 3000        | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | -40 to 85    | (Y3K3, Y3KS, Y3KU)      | <a href="#">Samples</a> |
| TLVH431BIDBZRG4  | ACTIVE        | SOT-23       | DBZ             | 3    | 3000        | RoHS & Green    | NIPDAUAG                             | Level-1-260C-UNLIM   | -40 to 85    | Y3KS                    | <a href="#">Samples</a> |
| TLVH431BIDBZT    | ACTIVE        | SOT-23       | DBZ             | 3    | 250         | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | -40 to 85    | (Y3KS, Y3KU)            | <a href="#">Samples</a> |
| TLVH431BIDCKR    | ACTIVE        | SC70         | DCK             | 6    | 3000        | RoHS & Green    | NIPDAU                               | Level-1-260C-UNLIM   | -40 to 85    | YJU                     | <a href="#">Samples</a> |
| TLVH431BIDCKT    | ACTIVE        | SC70         | DCK             | 6    | 250         | RoHS & Green    | NIPDAU                               | Level-1-260C-UNLIM   | -40 to 85    | YJU                     | <a href="#">Samples</a> |
| TLVH431BILP      | ACTIVE        | TO-92        | LP              | 3    | 1000        | RoHS & Green    | SN                                   | N / A for Pkg Type   | -40 to 85    | ZB431B                  | <a href="#">Samples</a> |
| TLVH431BILPR     | ACTIVE        | TO-92        | LP              | 3    | 2000        | RoHS & Green    | SN                                   | N / A for Pkg Type   | -40 to 85    | ZB431B                  | <a href="#">Samples</a> |
| TLVH431BIPK      | ACTIVE        | SOT-89       | PK              | 3    | 1000        | RoHS & Green    | SN                                   | Level-2-260C-1 YEAR  | -40 to 85    | V8                      | <a href="#">Samples</a> |
| TLVH431BQDBVR    | ACTIVE        | SOT-23       | DBV             | 5    | 3000        | RoHS & Green    | NIPDAU   SN                          | Level-1-260C-UNLIM   | -40 to 125   | (Y3LJ, Y3LU)            | <a href="#">Samples</a> |
| TLVH431BQDBVT    | ACTIVE        | SOT-23       | DBV             | 5    | 250         | RoHS & Green    | NIPDAU   SN                          | Level-1-260C-UNLIM   | -40 to 125   | (Y3LJ, Y3LU)            | <a href="#">Samples</a> |
| TLVH431BQDBZR    | ACTIVE        | SOT-23       | DBZ             | 3    | 3000        | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | -40 to 125   | (Y3LS, Y3LU)            | <a href="#">Samples</a> |
| TLVH431BQDBZRG4  | ACTIVE        | SOT-23       | DBZ             | 3    | 3000        | RoHS & Green    | NIPDAU   NIPDAUAG                    | Level-1-260C-UNLIM   | -40 to 125   | Y3LS                    | <a href="#">Samples</a> |
| TLVH431BQDBZT    | ACTIVE        | SOT-23       | DBZ             | 3    | 250         | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | -40 to 125   | (Y3LS, Y3LU)            | <a href="#">Samples</a> |
| TLVH431BQDCKR    | ACTIVE        | SC70         | DCK             | 6    | 3000        | RoHS & Green    | NIPDAU                               | Level-1-260C-UNLIM   | -40 to 125   | YKU                     | <a href="#">Samples</a> |
| TLVH431BQDCKRG4  | ACTIVE        | SC70         | DCK             | 6    | 3000        | RoHS & Green    | NIPDAU                               | Level-1-260C-UNLIM   |              | YKU                     | <a href="#">Samples</a> |
| TLVH431BQDCKT    | ACTIVE        | SC70         | DCK             | 6    | 250         | RoHS & Green    | NIPDAU                               | Level-1-260C-UNLIM   | -40 to 125   | YKU                     | <a href="#">Samples</a> |

| Orderable Device | Status<br>(1) | Package Type | Package Drawing | Pins | Package Qty | Eco Plan<br>(2) | Lead finish/<br>Ball material<br>(6) | MSL Peak Temp<br>(3) | Op Temp (°C) | Device Marking<br>(4/5) | Samples                 |
|------------------|---------------|--------------|-----------------|------|-------------|-----------------|--------------------------------------|----------------------|--------------|-------------------------|-------------------------|
| TLVH431BQLP      | OBSOLETE      | TO-92        | LP              | 3    |             | TBD             | Call TI                              | Call TI              | -40 to 125   | ZD431B                  |                         |
| TLVH431BQLPR     | ACTIVE        | TO-92        | LP              | 3    | 2000        | RoHS & Green    | SN                                   | N / A for Pkg Type   | -40 to 125   | ZD431B                  | <a href="#">Samples</a> |
| TLVH431BQPK      | ACTIVE        | SOT-89       | PK              | 3    | 1000        | RoHS & Green    | SN                                   | Level-2-260C-1 YEAR  | -40 to 125   | V9                      | <a href="#">Samples</a> |
| TLVH431CDBVR     | ACTIVE        | SOT-23       | DBV             | 5    | 3000        | RoHS & Green    | NIPDAU   SN                          | Level-1-260C-UNLIM   | 0 to 70      | (Y3UJ, Y3US, Y3UU)      | <a href="#">Samples</a> |
| TLVH431CDBVT     | ACTIVE        | SOT-23       | DBV             | 5    | 250         | RoHS & Green    | NIPDAU   SN                          | Level-1-260C-UNLIM   | 0 to 70      | (Y3UJ, Y3UU)            | <a href="#">Samples</a> |
| TLVH431CDBZR     | ACTIVE        | SOT-23       | DBZ             | 3    | 3000        | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | 0 to 70      | (Y3US, Y3UU)            | <a href="#">Samples</a> |
| TLVH431CDBZT     | ACTIVE        | SOT-23       | DBZ             | 3    | 250         | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | 0 to 70      | (Y3US, Y3UU)            | <a href="#">Samples</a> |
| TLVH431CDBZTG4   | ACTIVE        | SOT-23       | DBZ             | 3    | 250         | RoHS & Green    | NIPDAUAG                             | Level-1-260C-UNLIM   | 0 to 70      | Y3US                    | <a href="#">Samples</a> |
| TLVH431CDCKT     | ACTIVE        | SC70         | DCK             | 6    | 250         | RoHS & Green    | NIPDAU                               | Level-1-260C-UNLIM   | 0 to 70      | YUU                     | <a href="#">Samples</a> |
| TLVH431CLP       | OBSOLETE      | TO-92        | LP              | 3    |             | TBD             | Call TI                              | Call TI              | 0 to 70      | ZA431                   |                         |
| TLVH431CLPR      | ACTIVE        | TO-92        | LP              | 3    | 2000        | RoHS & Green    | SN                                   | N / A for Pkg Type   | 0 to 70      | ZA431                   | <a href="#">Samples</a> |
| TLVH431CPK       | ACTIVE        | SOT-89       | PK              | 3    | 1000        | RoHS & Green    | SN                                   | Level-2-260C-1 YEAR  | 0 to 70      | W4                      | <a href="#">Samples</a> |
| TLVH431IDBVR     | ACTIVE        | SOT-23       | DBV             | 5    | 3000        | RoHS & Green    | NIPDAU   SN                          | Level-1-260C-UNLIM   | -40 to 85    | (Y3VJ, Y3VS, Y3VU)      | <a href="#">Samples</a> |
| TLVH431IDBVT     | ACTIVE        | SOT-23       | DBV             | 5    | 250         | RoHS & Green    | NIPDAU   SN                          | Level-1-260C-UNLIM   | -40 to 85    | (Y3VJ, Y3VU)            | <a href="#">Samples</a> |
| TLVH431IDBZR     | ACTIVE        | SOT-23       | DBZ             | 3    | 3000        | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | -40 to 85    | (Y3VS, Y3VU)            | <a href="#">Samples</a> |
| TLVH431IDBZT     | ACTIVE        | SOT-23       | DBZ             | 3    | 250         | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | -40 to 85    | (Y3VS, Y3VU)            | <a href="#">Samples</a> |
| TLVH431IDCKR     | ACTIVE        | SC70         | DCK             | 6    | 3000        | RoHS & Green    | NIPDAU                               | Level-1-260C-UNLIM   | -40 to 85    | YVU                     | <a href="#">Samples</a> |
| TLVH431IDCKT     | ACTIVE        | SC70         | DCK             | 6    | 250         | RoHS & Green    | NIPDAU                               | Level-1-260C-UNLIM   | -40 to 85    | YVU                     | <a href="#">Samples</a> |
| TLVH431ILP       | OBSOLETE      | TO-92        | LP              | 3    |             | TBD             | Call TI                              | Call TI              | -40 to 85    | ZB431                   |                         |
| TLVH431ILPR      | ACTIVE        | TO-92        | LP              | 3    | 2000        | RoHS & Green    | SN                                   | N / A for Pkg Type   | -40 to 85    | ZB431                   | <a href="#">Samples</a> |
| TLVH431IPK       | ACTIVE        | SOT-89       | PK              | 3    | 1000        | RoHS & Green    | SN                                   | Level-2-260C-1 YEAR  | -40 to 85    | W5                      | <a href="#">Samples</a> |

| Orderable Device | Status<br>(1) | Package Type | Package Drawing | Pins | Package Qty | Eco Plan<br>(2) | Lead finish/<br>Ball material<br>(6) | MSL Peak Temp<br>(3) | Op Temp (°C) | Device Marking<br>(4/5) | Samples                 |
|------------------|---------------|--------------|-----------------|------|-------------|-----------------|--------------------------------------|----------------------|--------------|-------------------------|-------------------------|
| TLVH431QDBVR     | ACTIVE        | SOT-23       | DBV             | 5    | 3000        | RoHS & Green    | NIPDAU   SN                          | Level-1-260C-UNLIM   | -40 to 125   | (Y3MJ, Y3MS, Y3MU)      | <a href="#">Samples</a> |
| TLVH431QDBVT     | ACTIVE        | SOT-23       | DBV             | 5    | 250         | RoHS & Green    | NIPDAU   SN                          | Level-1-260C-UNLIM   | -40 to 125   | (Y3MJ, Y3MU)            | <a href="#">Samples</a> |
| TLVH431QDBZR     | ACTIVE        | SOT-23       | DBZ             | 3    | 3000        | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | -40 to 125   | (Y3MS, Y3MU)            | <a href="#">Samples</a> |
| TLVH431QDBZT     | ACTIVE        | SOT-23       | DBZ             | 3    | 250         | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | -40 to 125   | (Y3MS, Y3MU)            | <a href="#">Samples</a> |
| TLVH431QDBZTG4   | ACTIVE        | SOT-23       | DBZ             | 3    | 250         | RoHS & Green    | NIPDAUAG                             | Level-1-260C-UNLIM   | -40 to 125   | Y3MS                    | <a href="#">Samples</a> |
| TLVH431QDCKR     | ACTIVE        | SC70         | DCK             | 6    | 3000        | RoHS & Green    | NIPDAU                               | Level-1-260C-UNLIM   | -40 to 125   | YMU                     | <a href="#">Samples</a> |
| TLVH431QDCKRG4   | ACTIVE        | SC70         | DCK             | 6    | 3000        | RoHS & Green    | NIPDAU                               | Level-1-260C-UNLIM   |              | YMU                     | <a href="#">Samples</a> |
| TLVH431QDCKT     | ACTIVE        | SC70         | DCK             | 6    | 250         | RoHS & Green    | NIPDAU                               | Level-1-260C-UNLIM   | -40 to 125   | YMU                     | <a href="#">Samples</a> |
| TLVH431QLP       | OBSOLETE      | TO-92        | LP              | 3    |             | TBD             | Call TI                              | Call TI              | -40 to 125   | ZD431                   |                         |
| TLVH431QLPR      | ACTIVE        | TO-92        | LP              | 3    | 2000        | RoHS & Green    | SN                                   | N / A for Pkg Type   | -40 to 125   | ZD431                   | <a href="#">Samples</a> |
| TLVH431QPK       | ACTIVE        | SOT-89       | PK              | 3    | 1000        | RoHS & Green    | SN                                   | Level-2-260C-1 YEAR  | -40 to 125   | VC                      | <a href="#">Samples</a> |
| TLVH432ACDBZR    | ACTIVE        | SOT-23       | DBZ             | 3    | 3000        | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | 0 to 70      | (Y2ES, Y2EU)            | <a href="#">Samples</a> |
| TLVH432ACDBZRG4  | ACTIVE        | SOT-23       | DBZ             | 3    | 3000        | RoHS & Green    | NIPDAUAG                             | Level-1-260C-UNLIM   | 0 to 70      | Y2ES                    | <a href="#">Samples</a> |
| TLVH432ACDBZT    | ACTIVE        | SOT-23       | DBZ             | 3    | 250         | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | 0 to 70      | (Y2ES, Y2EU)            | <a href="#">Samples</a> |
| TLVH432AIDBZR    | ACTIVE        | SOT-23       | DBZ             | 3    | 3000        | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | -40 to 85    | (Y2FS, Y2FU)            | <a href="#">Samples</a> |
| TLVH432AIPK      | ACTIVE        | SOT-89       | PK              | 3    | 1000        | RoHS & Green    | SN                                   | Level-2-260C-1 YEAR  | -40 to 85    | VL                      | <a href="#">Samples</a> |
| TLVH432AQDBZR    | ACTIVE        | SOT-23       | DBZ             | 3    | 3000        | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | -40 to 125   | (Y2GS, Y2GU)            | <a href="#">Samples</a> |
| TLVH432AQDBZT    | ACTIVE        | SOT-23       | DBZ             | 3    | 250         | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | -40 to 125   | (Y2GS, Y2GU)            | <a href="#">Samples</a> |
| TLVH432BCDBZR    | ACTIVE        | SOT-23       | DBZ             | 3    | 3000        | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | 0 to 70      | (Y2HS, Y2HU)            | <a href="#">Samples</a> |

| Orderable Device | Status<br>(1) | Package Type | Package Drawing | Pins | Package Qty | Eco Plan<br>(2) | Lead finish/<br>Ball material<br>(6) | MSL Peak Temp<br>(3) | Op Temp (°C) | Device Marking<br>(4/5) | Samples                 |
|------------------|---------------|--------------|-----------------|------|-------------|-----------------|--------------------------------------|----------------------|--------------|-------------------------|-------------------------|
| TLVH432BCDBZRG4  | ACTIVE        | SOT-23       | DBZ             | 3    | 3000        | RoHS & Green    | NIPDAUAG                             | Level-1-260C-UNLIM   | 0 to 70      | Y2HS                    | <a href="#">Samples</a> |
| TLVH432BCPK      | ACTIVE        | SOT-89       | PK              | 3    | 1000        | RoHS & Green    | SN                                   | Level-2-260C-1 YEAR  | 0 to 70      | VN                      | <a href="#">Samples</a> |
| TLVH432BIDBZR    | ACTIVE        | SOT-23       | DBZ             | 3    | 3000        | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | -40 to 85    | (Y2JS, Y2JU)            | <a href="#">Samples</a> |
| TLVH432BQDBZR    | ACTIVE        | SOT-23       | DBZ             | 3    | 3000        | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | -40 to 125   | (Y2KS, Y2KU)            | <a href="#">Samples</a> |
| TLVH432BQDBZT    | ACTIVE        | SOT-23       | DBZ             | 3    | 250         | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | -40 to 125   | (Y2KS, Y2KU)            | <a href="#">Samples</a> |
| TLVH432BQDBZTG4  | ACTIVE        | SOT-23       | DBZ             | 3    | 250         | RoHS & Green    | NIPDAU   NIPDAUAG                    | Level-1-260C-UNLIM   | -40 to 125   | Y2KS                    | <a href="#">Samples</a> |
| TLVH432CDBZR     | ACTIVE        | SOT-23       | DBZ             | 3    | 3000        | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | 0 to 70      | (Y2AS, Y2AU)            | <a href="#">Samples</a> |
| TLVH432CDBZT     | ACTIVE        | SOT-23       | DBZ             | 3    | 250         | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | 0 to 70      | (Y2AS, Y2AU)            | <a href="#">Samples</a> |
| TLVH432CPK       | ACTIVE        | SOT-89       | PK              | 3    | 1000        | RoHS & Green    | SN                                   | Level-2-260C-1 YEAR  | 0 to 70      | VG                      | <a href="#">Samples</a> |
| TLVH432IDBZR     | ACTIVE        | SOT-23       | DBZ             | 3    | 3000        | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | -40 to 85    | (Y2BS, Y2BU)            | <a href="#">Samples</a> |
| TLVH432QDBZR     | ACTIVE        | SOT-23       | DBZ             | 3    | 3000        | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | -40 to 125   | (Y2DS, Y2DU)            | <a href="#">Samples</a> |
| TLVH432QDBZT     | ACTIVE        | SOT-23       | DBZ             | 3    | 250         | RoHS & Green    | NIPDAU   SN<br>  NIPDAUAG            | Level-1-260C-UNLIM   | -40 to 125   | (Y2DS, Y2DU)            | <a href="#">Samples</a> |
| TLVH432QPK       | ACTIVE        | SOT-89       | PK              | 3    | 1000        | RoHS & Green    | SN                                   | Level-2-260C-1 YEAR  | -40 to 125   | VJ                      | <a href="#">Samples</a> |

(1) The marketing status values are defined as follows:

**ACTIVE:** Product device recommended for new designs.

**LIFEBUY:** TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

**NRND:** Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

**PREVIEW:** Device has been announced but is not in production. Samples may or may not be available.

**OBSELETE:** TI has discontinued the production of the device.

(2) **RoHS:** TI defines "RoHS" to mean semiconductor products that are compliant with the current EU RoHS requirements for all 10 RoHS substances, including the requirement that RoHS substance do not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, "RoHS" products are suitable for use in specified lead-free processes. TI may reference these types of products as "Pb-Free".

**RoHS Exempt:** TI defines "RoHS Exempt" to mean products that contain lead but are compliant with EU RoHS pursuant to a specific EU RoHS exemption.

**Green:** TI defines "Green" to mean the content of Chlorine (Cl) and Bromine (Br) based flame retardants meet JS709B low halogen requirements of  $\leq 1000$ ppm threshold. Antimony trioxide based flame retardants must also meet the  $\leq 1000$ ppm threshold requirement.

- (3) MSL, Peak Temp. - The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.
- (4) There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.
- (5) Multiple Device Markings will be inside parentheses. Only one Device Marking contained in parentheses and separated by a "~" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Device Marking for that device.
- (6) Lead finish/Ball material - Orderable Devices may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead finish/Ball material values may wrap to two lines if the finish value exceeds the maximum column width.

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**OTHER QUALIFIED VERSIONS OF TLVH431A, TLVH431B :**

- Automotive : [TLVH431A-Q1](#), [TLVH431B-Q1](#)
- Enhanced Product : [TLVH431B-EP](#)

NOTE: Qualified Version Definitions:

- Automotive - Q100 devices qualified for high-reliability automotive applications targeting zero defects
- Enhanced Product - Supports Defense, Aerospace and Medical Applications