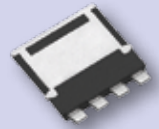




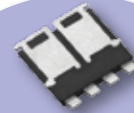
Vishay Intertechnology, Inc.

# AEC-Q101-Qualified SQ Rugged Series MOSFETs



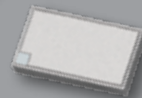
## PowerPAK® 8 X 8L

75 % Thinner and 55 %  
Smaller Than D<sup>2</sup>PAK



## PowerPAK® 8 X 8L DUAL

55 % Thinner, > 50 %  
Smaller Than Two DPAKs



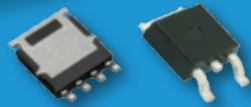
## KNOWN GOOD DIE (KGD)

Bare Die Supplied in  
Tape and Reel and Fully  
Tested



## PowerPAK® LITTLE FOOT®

100 % Lead (Pb)-Free  
and Halogen-Free



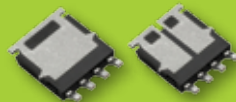
## ThunderFET®

≥ 80 V, Low  
On-Resistance and  
Low FOM



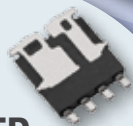
## PowerPAK® 1212-8

1/3 the Size of SO-8  
with Similar  
Performance



## PowerPAK® SO-8L

1/2 the Size of DPAK, Similar  
On-Resistance



## OPTIMIZED PowerPAK® SO-8L

Optimum High-and Low-  
Side Combination for  
Synchronous Buck



# SQ RUGGED SERIES MOSFETs

## Focus Products

### Single N-Channel MOSFETs, 20 V to 300 V

| V <sub>DS</sub> (V) | R <sub>DS(on)</sub> (Ω) Max. |                         | Q <sub>g</sub> (nC) | TO-220        | D <sup>2</sup> PAK / TO-263 | DPAK / TO-252  | PowerPAK <sup>®</sup> 8 x 8 L | PowerPAK <sup>®</sup> SO-8L | SO-8     | PowerPAK <sup>®</sup> 1212-8 | TSOP6    | SOT-23    | PowerPAK <sup>®</sup> SC-70 | SC70-6    |
|---------------------|------------------------------|-------------------------|---------------------|---------------|-----------------------------|----------------|-------------------------------|-----------------------------|----------|------------------------------|----------|-----------|-----------------------------|-----------|
|                     | V <sub>GS</sub> = 10 V       | V <sub>GS</sub> = 4.5 V |                     |               |                             |                |                               |                             |          |                              |          |           |                             |           |
| 20                  | 0.0013                       | 0.0017                  | 192                 |               | SQM120N02-1m3L              |                |                               |                             |          |                              |          |           |                             |           |
| 20                  | 0.0035                       | 0.0045                  | 70                  |               |                             | SQD100N02-3m5L |                               |                             |          |                              |          |           |                             |           |
| 20                  |                              | 0.028 <sup>d</sup>      | 9 <sup>b</sup>      |               |                             |                |                               |                             |          | SQS420EN                     |          |           |                             |           |
| 20                  |                              | 0.03 <sup>d</sup>       | 9.3 <sup>b</sup>    |               |                             |                |                               |                             |          |                              | SQ3460EV |           |                             |           |
| 20                  |                              | 0.03 <sup>d</sup>       | 4.5 <sup>b</sup>    |               |                             |                |                               |                             |          |                              |          | SQ2310ES  |                             |           |
| 20                  |                              | 0.028 <sup>d</sup>      | 5                   |               |                             |                |                               |                             |          |                              |          |           | SQA410EJ                    |           |
| 30                  | 0.0015                       | 0.002                   | 179                 |               | SQM120N03-1m5L              |                |                               |                             |          |                              |          |           |                             |           |
| 30                  | 0.0032                       | 0.0039                  | 77                  |               |                             | SQD100N03-3m2L |                               |                             |          |                              |          |           |                             |           |
| 30                  | 0.0039                       | 0.0042                  | 73.5                |               |                             |                |                               | SQJ410EP                    |          |                              |          |           |                             |           |
| 30                  | 0.0038                       | 0.005                   | 72                  |               |                             |                |                               |                             | SQ4182EY |                              |          |           |                             |           |
| 30                  | 0.0085                       | 0.01                    | 26                  |               |                             |                |                               |                             |          | SQS482EN                     |          |           |                             |           |
| 30                  | 0.0175                       | 0.0213                  | 14                  |               |                             |                |                               |                             |          |                              | SQ3410EV |           |                             |           |
| 30                  | 0.024                        | 0.032                   | 7.95                |               |                             |                |                               |                             |          |                              |          | SQ2348ES  |                             |           |
| 30                  |                              | 0.065 <sup>d</sup>      | 4.2 <sup>b</sup>    |               |                             |                |                               |                             |          |                              |          |           |                             | SQ1470AEH |
| 40                  | 0.0011                       | 0.0013                  | 275                 |               | SQM200N04-1m1L <sup>c</sup> |                |                               |                             |          |                              |          |           |                             |           |
| 40                  | 0.0012                       | 0.0015                  | 140                 |               |                             |                | SQJQ100EL                     |                             |          |                              |          |           |                             |           |
| 40                  | 0.0024                       | 0.0031                  | 65                  |               |                             |                |                               | SQJA44EP <sup>a</sup>       |          |                              |          |           |                             |           |
| 40                  | 0.0032                       |                         | 65                  |               |                             | SQD40030E      |                               |                             |          |                              |          |           |                             |           |
| 40                  | 0.0046                       | 0.0056                  | 72                  |               |                             |                |                               |                             | SQ4184EY |                              |          |           |                             |           |
| 40                  | 0.009                        | 0.01                    | 25.5                |               |                             |                |                               |                             |          | SQS484EN                     |          |           |                             |           |
| 40                  | 0.031                        | 0.036                   | 8.7                 |               |                             |                |                               |                             |          |                              |          | SQ2318AES |                             |           |
| 40                  | 0.032                        | 0.042                   | 8.5                 |               |                             |                |                               |                             |          |                              | SQ3418EV |           |                             |           |
| 60                  | 0.0019                       |                         | 110                 |               |                             |                | SQJQ466E <sup>a</sup>         |                             |          |                              |          |           |                             |           |
| 60                  | 0.002                        | 0.0025                  | 128                 |               | SQM50020EL                  |                |                               |                             |          |                              |          |           |                             |           |
| 60                  | 0.0048                       | 0.0063                  | 39                  |               |                             |                |                               | SQJA62EP <sup>a</sup>       |          |                              |          |           |                             |           |
| 60                  | 0.006                        |                         | 96.5                | SQP120N06-06  |                             |                |                               |                             |          |                              |          |           |                             |           |
| 60                  | 0.0063                       | 0.0069                  | 82                  |               |                             | SQD97N06-6m3L  |                               |                             |          |                              |          |           |                             |           |
| 60                  | 0.012                        | 0.014                   | 45                  |               |                             |                |                               |                             | SQ4470EY |                              |          |           |                             |           |
| 60                  | 0.0215                       | 0.0261                  | 27.4                |               |                             |                |                               |                             |          | SQS850EN                     |          |           |                             |           |
| 60                  | 0.042                        | 0.063                   | 4 <sup>b</sup>      |               |                             |                |                               |                             |          |                              | SQ3426EV |           |                             |           |
| 60                  | 0.068                        | 0.075                   | 7.6                 |               |                             |                |                               |                             |          |                              |          | SQ2362ES  |                             |           |
| 60                  | 0.12                         | 0.015                   | 4.4                 |               |                             |                |                               |                             |          |                              |          |           |                             | SQ1440EH  |
| 75                  | 0.026                        | 0.032                   | 22                  |               |                             |                |                               | SQJ486EP                    |          |                              |          |           |                             |           |
| 80                  | 0.003                        |                         | 100                 |               |                             |                | SQJQ480E <sup>a</sup>         |                             |          |                              |          |           |                             |           |
| 80                  | 0.0032                       |                         | 110                 |               | SQM60030E                   |                |                               |                             |          |                              |          |           |                             |           |
| 80                  | 0.007                        | 0.011                   | 39                  |               |                             |                |                               | SQJA80EP <sup>a</sup>       |          |                              |          |           |                             |           |
| 80                  | 0.021                        | 0.027                   | 12                  |               |                             |                |                               |                             |          | SQSA80ENW <sup>a</sup>       |          |           |                             |           |
| 100                 | 0.0038                       |                         | 125                 | SQP120N10-3m8 | SQM120N10-3m8               |                | SQJQ410EL <sup>a</sup>        |                             |          |                              |          |           |                             |           |
| 100                 | 0.0089                       | 0.0112                  | 46                  |               |                             | SQD50N10-8m9L  |                               |                             |          |                              |          |           |                             |           |
| 100                 | 0.011                        | 0.014                   | 37                  |               |                             |                |                               | SQJ402EP                    |          |                              |          |           |                             |           |
| 100                 | 0.3                          |                         | 2.3                 |               |                             |                |                               |                             |          |                              |          | SQ2398ES  |                             |           |
| 150                 | 0.019                        |                         | 80                  |               | SQM85N15-19                 |                |                               |                             |          |                              |          |           |                             |           |
| 150                 | 0.052                        |                         | 37.9                | SQP25N15-52   |                             |                |                               |                             |          |                              |          |           |                             |           |
| 150                 | 0.052                        |                         | 34                  |               |                             | SQD25N15-52    |                               |                             |          |                              |          |           |                             |           |
| 200                 | 0.035                        |                         | 90                  |               | SQM60N20-35                 |                |                               |                             |          |                              |          |           |                             |           |
| 250                 | 0.35                         |                         | 19                  |               |                             | SQD07N25-350H  |                               |                             |          |                              |          |           |                             |           |
| 300                 | 0.097                        |                         | 86                  |               | SQM35N30-97                 |                |                               |                             |          |                              |          |           |                             |           |
| 300                 | 0.33                         |                         | 31                  |               |                             | SQD10N30-330H  |                               |                             |          |                              |          |           |                             |           |

### Dual N-Channel MOSFETs

|     |        |                   |                   |  |  |  |                        |                       |                       |                        |  |  |  |          |
|-----|--------|-------------------|-------------------|--|--|--|------------------------|-----------------------|-----------------------|------------------------|--|--|--|----------|
| 20  |        | 0.28 <sup>a</sup> | 0.76 <sup>b</sup> |  |  |  |                        |                       |                       |                        |  |  |  | SQ1912EH |
| 30  | 0.007  | 0.0086            | 25.8              |  |  |  |                        | SQJ910AEP             |                       |                        |  |  |  |          |
| 30  | 0.0123 | 0.0135            | 31.5              |  |  |  |                        |                       | SQ4282EY              |                        |  |  |  |          |
| 40  | 0.0035 |                   | 50                |  |  |  | SQJQ904E <sup>a</sup>  |                       |                       |                        |  |  |  |          |
| 40  | 0.007  | 0.0092            | 40                |  |  |  |                        | SQJB40EP <sup>a</sup> |                       |                        |  |  |  |          |
| 40  | 0.0135 | 0.0148            | 30                |  |  |  |                        |                       | SQ4284EY              |                        |  |  |  |          |
| 40  | 0.03   | 0.04              | 10                |  |  |  |                        |                       |                       | SQS944ENW <sup>a</sup> |  |  |  |          |
| 60  | 0.012  | 0.016             | 14                |  |  |  |                        | SQJB60DP <sup>a</sup> |                       |                        |  |  |  |          |
| 60  | 0.014  | 0.019             | 12                |  |  |  | SQJQ960EL <sup>a</sup> |                       |                       |                        |  |  |  |          |
| 60  | 0.04   | 0.055             | 11.7              |  |  |  |                        |                       | SQ4946AEY             |                        |  |  |  |          |
| 60  | 0.04   | 0.05              | 5                 |  |  |  |                        |                       |                       | SQS966ENW <sup>a</sup> |  |  |  |          |
| 75  | 0.05   | 0.066             | 14                |  |  |  |                        | SQJ980AEP             |                       |                        |  |  |  |          |
| 80  | 0.015  | 0.019             | 12.7              |  |  |  | SQJQ980EL <sup>a</sup> |                       |                       |                        |  |  |  |          |
| 80  | 0.02   | 0.026             | 12                |  |  |  |                        |                       | SQJB80DP <sup>a</sup> |                        |  |  |  |          |
| 100 | 0.0086 |                   |                   |  |  |  | SQJQ910EL <sup>a</sup> |                       |                       |                        |  |  |  |          |
| 100 | 0.0263 | 0.0349            | 15                |  |  |  |                        | SQJ974EP              |                       |                        |  |  |  |          |

a. target specification b. V<sub>GS</sub> = 4.5 V c. 7 lead d. also rated at 2.5 V and / or 1.8 V or 1.5 V



# SQ RUGGED SERIES MOSFETs

## Focus Products

### Single P-Channel MOSFETs

| V <sub>DS</sub> (V) | R <sub>DS(on)</sub> (Ω) Max. |                         | Q <sub>g</sub> (nC) | TO-220                       | D <sup>2</sup> PAK / TO-263                | DPAK / TO-252                           | PowerPAK® 8 x 8 L                    | PowerPAK® SO-8L                      | SO-8                     | PowerPAK® 1212-8                     | TSOP6                    | SOT-23                    | SC70-6                    |
|---------------------|------------------------------|-------------------------|---------------------|------------------------------|--|---|--------------------------------------|--------------------------------------|--------------------------|--------------------------------------|--------------------------|---------------------------|---------------------------|
|                     | V <sub>GS</sub> = 10 V       | V <sub>GS</sub> = 4.5 V |                     |                              |  |   |                                      |                                      |                          |                                      |                          |                           |                           |
| -12                 |                              | 0.006 <sup>d</sup>      | 109 <sup>b</sup>    |                              |  |   |                                      | <a href="#">SQJ401EP</a>             |                          |                                      |                          |                           |                           |
| -12                 |                              | 0.0065 <sup>d</sup>     | 101 <sup>b</sup>    |                              |  |   |                                      |                                      | <a href="#">SQ4153EY</a> |                                      |                          |                           |                           |
| -12                 | 0.013                        | 0.016                   |                     |                              |  |   |                                      |                                      |                          | <a href="#">SQS437EN<sup>a</sup></a> |                          |                           |                           |
| -12                 |                              | 0.025 <sup>d</sup>      | 21 <sup>b</sup>     |                              |  |   |                                      |                                      |                          |                                      | <a href="#">SQ3461EV</a> |                           |                           |
| -12                 |                              | 0.05 <sup>d</sup>       | 8.4 <sup>b</sup>    |                              |  |   |                                      |                                      |                          |                                      |                          | <a href="#">SQ2315ES</a>  |                           |
| -20                 | 0.036                        | 0.064                   | 17.7                |                              |  |   |                                      |                                      |                          |                                      | <a href="#">SQ3469EV</a> |                           |                           |
| -20                 |                              | 0.115 <sup>d</sup>      | 3.4 <sup>b</sup>    |                              |  |   |                                      |                                      |                          |                                      |                          | <a href="#">SQ2351ES</a>  |                           |
| -30                 | 0.0057                       | 0.0076                  | 82                  |                              |  |   |                                      | <a href="#">SQJ407EP<sup>a</sup></a> |                          |                                      |                          |                           |                           |
| -30                 | 0.007                        | 0.011                   | 103.5               | <a href="#">SQP50P03-07</a>  | <a href="#">SQM50P03-07</a>                |   |                                      |                                      |                          |                                      |                          |                           |                           |
| -30                 | 0.007                        | 0.011                   | 97                  |                              |  | <a href="#">SQD50P03-07</a>             |                                      |                                      |                          |                                      |                          |                           |                           |
| -30                 | 0.0085                       | 0.02                    | 75                  |                              |  |   |                                      |                                      | <a href="#">SQ4483EY</a> |                                      |                          |                           |                           |
| -30                 | 0.021                        | 0.06                    | 17 <sup>b</sup>     |                              |  |   |                                      |                                      |                          | <a href="#">SQS423EN</a>             |                          |                           |                           |
| -30                 | 0.043                        | 0.07                    | 15.4                |                              |  |   |                                      |                                      |                          |                                      | <a href="#">SQ3481EV</a> |                           |                           |
| -30                 | 0.17                         | 0.37                    | 4.5                 |                              |  |   |                                      |                                      |                          |                                      |                          | <a href="#">SQ2303ES</a>  |                           |
| -30                 | 0.175                        | 0.3                     | 4.2 <sup>b</sup>    |                              |  |   |                                      |                                      |                          |                                      |                          |                           | <a href="#">SQ1431EH</a>  |
| -40                 | 0.0027                       |                         |                     |                              | <a href="#">SQM120P04-2m7L<sup>a</sup></a> |   |                                      |                                      |                          |                                      |                          |                           |                           |
| -40                 | 0.0094                       | 0.016                   | 103                 |                              |  | <a href="#">SQD90P04-9m4L</a>           |                                      |                                      |                          |                                      |                          |                           |                           |
| -40                 | 0.0076                       | 0.0099                  | 82                  |                              |  |   | <a href="#">SQJ409EP<sup>a</sup></a> |                                      |                          |                                      |                          |                           |                           |
| -40                 | 0.014                        | 0.023                   | 74                  |                              |  |   |                                      | <a href="#">SQ4401EY</a>             |                          |                                      |                          |                           |                           |
| -40                 | 0.029                        | 0.047                   | 17.7 <sup>b</sup>   |                              |  |   |                                      |                                      |                          | <a href="#">SQS401EN</a>             |                          |                           |                           |
| -40                 | 0.058                        | 0.092                   | 15.3                |                              |  |   |                                      |                                      |                          |                                      | <a href="#">SQ3419EV</a> |                           |                           |
| -40                 | 0.075                        | 0.145                   | 10.5                |                              |  |   |                                      |                                      |                          |                                      |                          | <a href="#">SQ2319ADS</a> |                           |
| -60                 | 0.0067                       | 0.0088                  | 180                 | <a href="#">SQP90P06-07L</a> | <a href="#">SQM120P06-07L</a>              |   |                                      |                                      |                          |                                      |                          |                           |                           |
| -60                 | 0.0155                       | 0.02                    | 98                  |                              |  | <a href="#">SQD50P06-15L</a>            |                                      |                                      |                          |                                      |                          |                           |                           |
| -60                 | 0.018                        | 0.024                   | 73                  |                              |  |   | <a href="#">SQJ459EP</a>             |                                      |                          |                                      |                          |                           |                           |
| -60                 | 0.065                        | 0.09                    | 25.5                |                              |  |   |                                      |                                      |                          | <a href="#">SQ7415AEN</a>            |                          |                           |                           |
| -60                 | 0.085                        | 0.115                   | 26.5                |                              |  |   |                                      |                                      | <a href="#">SQ9407EY</a> |                                      |                          |                           |                           |
| -60                 | 0.095                        | 0.135                   | 15.3                |                              |  |   |                                      |                                      |                          |                                      | <a href="#">SQ3427EV</a> |                           |                           |
| -60                 | 0.177                        | 0.246                   | 9                   |                              |  |   |                                      |                                      |                          |                                      |                          | <a href="#">SQ2361ES</a>  |                           |
| -60                 | 0.29                         | 0.395                   | 3.6 <sup>b</sup>    |                              |  |   |                                      |                                      |                          |                                      |                          |                           | <a href="#">SQ1421EDH</a> |
| -80                 | 0.025                        | 0.031                   | 91                  |                              | <a href="#">SQM50P08-25L</a>               | <a href="#">SQD50P08-25L</a>            |                                      |                                      |                          |                                      |                          |                           |                           |
| -80                 | 0.025                        | 0.029                   | 101                 |                              |  |   |                                      | <a href="#">SQJ469EP</a>             |                          |                                      |                          |                           |                           |
| -80                 | 0.29                         | 0.314 (6V)              | 11.5                |                              |  |   |                                      |                                      |                          |                                      |                          | <a href="#">SQ2337ES</a>  |                           |
| -100                | 0.0085                       |                         |                     |                              | <a href="#">SQM70101EL<sup>a</sup></a>     |   |                                      |                                      |                          |                                      |                          |                           |                           |
| -100                | 0.011                        |                         |                     |                              |  | <a href="#">SQD50P10-11<sup>a</sup></a> |                                      |                                      |                          |                                      |                          |                           |                           |
| -150                | 1.77                         |                         | 7.4                 |                              |  |   |                                      |                                      |                          |                                      |                          | <a href="#">SQ2325ES</a>  |                           |
| -200                | 0.213                        | 0.221 (6V)              | 71                  |                              |  |   |                                      | <a href="#">SQJ431EP</a>             |                          |                                      |                          |                           |                           |

### Dual P-Channel MOSFETs

| V <sub>DS</sub> (V) | R <sub>DS(on)</sub> (Ω) |                         | Q <sub>g</sub> (nC) | PowerPAK® SO-8L          | SO-8                     | TSOP-6                   |
|---------------------|-------------------------|-------------------------|---------------------|--------------------------|--------------------------|--------------------------|
|                     | V <sub>GS</sub> = 10 V  | V <sub>GS</sub> = 4.5 V |                     |                          |                          |                          |
| -20                 |                         | 0.145 <sup>d</sup>      | 3.1 <sup>b</sup>    |                          |                          | <a href="#">SQ3985EV</a> |
| -30                 | 0.017                   | 0.036                   | 33                  | <a href="#">SQJ951EP</a> |                          |                          |
| -30                 | 0.035                   | 0.065                   | 19.5                |                          | <a href="#">SQ4949EY</a> |                          |
| -60                 | 0.048                   | 0.0612                  | 43.4                |                          | <a href="#">SQ4917EY</a> |                          |
| -60                 | 0.085                   | 0.115 (6 V)             | 26.5                | <a href="#">SQJ963EP</a> |                          |                          |

### Asymmetric Dual N-Channel MOSFETs

| V <sub>DS</sub> (V) | Channel 1               |                         |                     | Channel 2               |                         |                     | PowerPAK® SO-8L                      |
|---------------------|-------------------------|-------------------------|---------------------|-------------------------|-------------------------|---------------------|--------------------------------------|
|                     | R <sub>DS(on)</sub> (Ω) |                         | Q <sub>g</sub> (nC) | R <sub>DS(on)</sub> (Ω) |                         | Q <sub>g</sub> (nC) |                                      |
|                     | V <sub>GS</sub> = 10 V  | V <sub>GS</sub> = 4.5 V |                     | V <sub>GS</sub> = 10 V  | V <sub>GS</sub> = 4.5 V |                     |                                      |
| 12                  | 0.0033                  | 0.0045                  | 35.9                | 0.0065                  | 0.0093                  | 14.5                | <a href="#">SQJ202EP</a>             |
| 20                  | 0.0037                  | 0.005                   | 29                  | 0.0088                  | 0.0124                  | 12                  | <a href="#">SQJ200EP</a>             |
| 40                  | 0.0064                  | 0.0076                  | 31.8                | 0.016                   | 0.0188                  | 13.5                | <a href="#">SQJ940EP</a>             |
| 40                  | 0.011                   | 0.013                   | 22.5                | 0.022                   | 0.026                   | 13.1                | <a href="#">SQJ942EP</a>             |
| 100                 | 0.066                   |                         |                     | 0.025                   |                         |                     | <a href="#">SQJ990EP<sup>a</sup></a> |

### N-Channel and P-Channel Pair MOSFETs

| V <sub>DS</sub> (V) | N-Channel               |                         |                     | P-Channel               |                         |                     | PowerPAK® SO-8L           | SO-8                      | SC70-6                    |
|---------------------|-------------------------|-------------------------|---------------------|-------------------------|-------------------------|---------------------|---------------------------|---------------------------|---------------------------|
|                     | R <sub>DS(on)</sub> (Ω) |                         | Q <sub>g</sub> (nC) | R <sub>DS(on)</sub> (Ω) |                         | Q <sub>g</sub> (nC) |                           |                           |                           |
|                     | V <sub>GS</sub> = 10 V  | V <sub>GS</sub> = 4.5 V |                     | V <sub>GS</sub> = 10 V  | V <sub>GS</sub> = 4.5 V |                     |                           |                           |                           |
| 20                  |                         | 0.28 <sup>d</sup>       | 0.93 <sup>b</sup>   |                         | 0.49 <sup>d</sup>       | 1 <sup>b</sup>      |                           |                           | <a href="#">SQ1563AEH</a> |
| 30                  | 0.031                   | 0.042                   | 5.9                 | 0.07                    | 0.19                    | 7.9                 |                           | <a href="#">SQ4532AEY</a> |                           |
| 30                  | 0.28                    | 0.38                    | 1 <sup>b</sup>      | 0.94                    | 1.8                     | 1.2 <sup>b</sup>    |                           |                           | <a href="#">SQ1539EH</a>  |
| 40                  | 0.0092                  | 0.0112                  | 25.5                | 0.027                   | 0.0435                  | 30.2                | <a href="#">SQJ500AEP</a> |                           |                           |

a. target specification b. V<sub>GS</sub> = 4.5 V c. 7 lead d. also rated at 2.5 V and / or 1.8 V or 1.5 V

# DEDICATED AUTOMOTIVE PROCESSES INSTILL QUALITY AND ROBUSTNESS FROM DESIGN TO MANUFACTURING

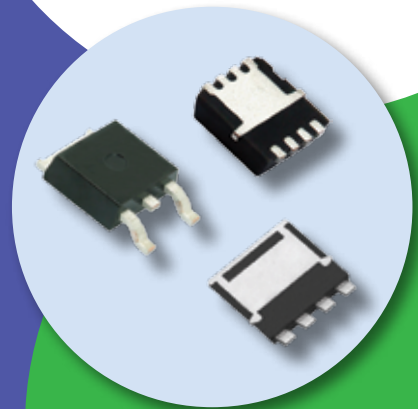


## Advantages of SQ Rugged Series MOSFETs

- AEC-Q101-qualified
- Junction temperature up to 175 °C
- Low on-resistance n- and p-channel TrenchFET® technologies
- Innovative space-saving package options

## For the Following Applications

- All automotive applications requiring ruggedness and high reliability
- Motor control
- Coil drivers



Innovative packaging saves valuable space



KGD maximizes efficiency



## Useful Links

- [www.vishay.com/mosfets/automotive-mosfets/](http://www.vishay.com/mosfets/automotive-mosfets/)
- [www.vishay.com/automotive-mosfets/param](http://www.vishay.com/automotive-mosfets/param)

Talk to Vishay about optimizing a MOSFET for your application

**AEC-Q101  
QUALIFIED**  
TS-16949 approved

**HALOGEN  
FREE**



EU Annex II  
compliant

A **WORLD OF  
SOLUTIONS**