### 12 V – 300 V MOSFET Qualification Level

#### 12 V – 300 V MOSFET Qualification Level

<table>
<thead>
<tr>
<th>Power Discrete MOSFET</th>
<th>Standard</th>
<th>Industrial</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Summary</strong></td>
<td>Qualification according to JEDEC</td>
<td>Fully qualified according to JEDEC for Industrial Applications</td>
</tr>
<tr>
<td>QM System</td>
<td>ISO9001</td>
<td></td>
</tr>
<tr>
<td>Minimum requirement</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Development Process

- **Stress duration**
- **Post stress**

#### Stability & Production

#### Reliability Testing

- **Robustness verified by electrical test**

#### Services

- **Service Methodology**
- **Change Notification – PCN**
- **Customer Specific Requests**

#### Testing

- **Supported by online tools** (e.g.: internet qualification report)
- **PCN according to JESD46**
- **Not available**

#### Stress duration

- Up to 1000h/1000 cycles
  (see internet qualification report for exceptions)

#### Minimum 1000h/1000 cycles per JESD47

- (mission cycle assessment)

#### Verified by electrical test PLUS:

- 1) Electrical parameter drift
- 2) Delamination assessment
- 3) Wire bond assessment

#### Customer Specific

- PCN according to JESD46 with possibility for extension window
- Upon request