



<b>Reason / Motivation for Change:</b>	Capacity improvement																																											
<b>Anticipated impact on fit, form, function, reliability, product safety or manufacturability:</b>	<p>The device has been qualified and validated based on the same Product Specification. The device has successfully passed the qualification tests. Potential impacts can be identified, but due to testing performed by onsemi in relation to the PCN, associated risks are verified and excluded.</p> <p>No anticipated impacts.</p>																																											
<b>Sites Affected:</b>																																												
<b>onsemi Sites</b>			<b>External Foundry/Subcon Sites</b>																																									
onsemi Roznov, Czech Republic			None																																									
<b>Marking of Parts/ Traceability of Change:</b>	Changed material can be identified by lot code																																											
<p><b>Reliability Data Summary:</b></p> <p><b>QV DEVICE NAME:</b> FGY120T65SPD-F085 (QV1)  <b>RMS:</b> U90527  <b>PACKAGE:</b> TO-247</p> <table border="1"> <thead> <tr> <th>Test</th> <th>Specification</th> <th>Condition</th> <th>Interval</th> <th>Results</th> </tr> </thead> <tbody> <tr> <td>HTRB</td> <td>JESD22-A108</td> <td>Tj=175°C, 80% rated V</td> <td>1008hrs</td> <td>0/231</td> </tr> <tr> <td>HTGB</td> <td>JESD22-A108</td> <td>Ta=175°C, +20V</td> <td>1008hrs</td> <td>0/231</td> </tr> <tr> <td>HTSL</td> <td>JESD22-A103</td> <td>Ta=175°C</td> <td>1008hrs</td> <td>0/231</td> </tr> <tr> <td>IOL</td> <td>MIL-STD-750 (M1037) AEC-Q101</td> <td>Ta=+25°C, delta Tj=100°C On/off = 5min</td> <td>6000cyc</td> <td>0/231</td> </tr> <tr> <td>TC</td> <td>JESD22-A104</td> <td>Ta= -55°C to +150°C</td> <td>1000cyc</td> <td>0/231</td> </tr> <tr> <td>HAST</td> <td>JESD22-A110</td> <td>130°C, 85% RH, 18.8psig, bias</td> <td>96hrs</td> <td>0/231</td> </tr> <tr> <td>uHAST</td> <td>JESD22-A118</td> <td>130°C, 85% RH, 18.8psig, unbiased</td> <td>96hrs</td> <td>0/231</td> </tr> </tbody> </table> <p><b>NOTE: AEC-1pager is attached.</b></p> <p><i>To view attachments:</i></p> <ol style="list-style-type: none"> <li>1. Download pdf copy of the PCN to your computer</li> <li>2. Open the downloaded pdf copy of the PCN</li> <li>3. Click on the paper clip icon available on the menu provided in the left/bottom portion of the screen to reveal the Attachment field</li> <li>4. Then click on the attached file/s</li> </ol>					Test	Specification	Condition	Interval	Results	HTRB	JESD22-A108	Tj=175°C, 80% rated V	1008hrs	0/231	HTGB	JESD22-A108	Ta=175°C, +20V	1008hrs	0/231	HTSL	JESD22-A103	Ta=175°C	1008hrs	0/231	IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 5min	6000cyc	0/231	TC	JESD22-A104	Ta= -55°C to +150°C	1000cyc	0/231	HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96hrs	0/231	uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96hrs	0/231
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<p><b>Electrical Characteristics Summary:</b></p> <p>Electrical characteristics are not impacted.</p>																																												



## Final Product/Process Change Notification

Document #:FPCN24561ZD

Issue Date:19 Oct 2023

### List of Affected Parts:

**Note:** Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the **PCN Customized Portal**.

Current Part Number	New Part Number	Qualification Vehicle
RHRG3060-F085	NA	FGY120T65SPD-F085
AFGHL40T120RLD	NA	FGY120T65SPD-F085
AFGY100T65SPD	NA	FGY120T65SPD-F085
FGY160T65SPD-F085	NA	FGY120T65SPD-F085
AFGY160T65SPD-B4	NA	FGY120T65SPD-F085
AFGY120T65SPD	NA	FGY120T65SPD-F085
FGY120T65SPD-F085	NA	FGY120T65SPD-F085