



Title of Change:	Change of Mold compound and Lead frame design in ATPAK.	
Proposed first ship date:	3 November 2016 <i>or earlier upon customer approval</i>	
Contact information:	Contact your local ON Semiconductor Sales Office or <Yasunari.Noguchi@onsemi.com>	
Samples:	Contact your local ON Semiconductor Sales Office	
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or <Kazutoshi.Kitazume @onsemi.com>	
Type of notification:	<p>This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change.</p> <p>ON Semiconductor will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact <PCN.Support@onsemi.com>.</p>	
Change Part Identification:	Affected products will be identified with date code.	
Change category:	<input type="checkbox"/> Wafer Fab Change <input checked="" type="checkbox"/> Assembly Change <input type="checkbox"/> Test Change <input type="checkbox"/> Other _____	
Change Sub-Category(s):	<div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Manufacturing Site Change/Addition <input type="checkbox"/> Manufacturing Process Change </div> <div> <input checked="" type="checkbox"/> Material Change <input type="checkbox"/> Product specific change </div> <div> <input type="checkbox"/> Datasheet/Product Doc change <input type="checkbox"/> Shipping/Packaging/Marking <input type="checkbox"/> Other: _____ </div> </div>	
Sites Affected:	<input type="checkbox"/> All site(s) <input type="checkbox"/> not applicable <input checked="" type="checkbox"/> ON Semiconductor site(s) : ON Shenzhen, China	
Description and Purpose: <p>This is a Final Process Change Notification to announce the changing mold compound and the changing lead frame.</p> <p>1) The changing mold compound from GE-1030 to EME-G700.</p> <p>2) The changing design of lead frame to add V-notch on a flag.</p>		
	Before change	After change
Mold compound	GE-1030	EME-G700
Lead frame	Lead frame without V-notch for preventing solder flow on flag.	Lead frame with V-notch for preventing solder flow on flag.

**Reliability Data Summary:**

QV DEVICE NAME ATP301-TL-H

PACKAGE: ATPAK / DPAK (Single Gauge)

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=150°C, 80% max rated V	1008 hrs	0/231
HTGB	JESD22-A108	Ta=150°C, 100% max rated Vgss	1008 hrs	0/231
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/231
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cyc	0/231
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/231
AC	JSTD020 JESD-A102	Tj=121°C, RH=100%, Pressure=15psig	96 hrs	0/231

PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	
RSH	JESD22- B106	Ta = 265C, 10 sec	0/90

Electrical Characteristic Summary:

There is no change in the electrical performance. Datasheet specifications remain unchanged.

List of Affected Standard Parts:

Part Number	Qualification Vehicle
ATP301-TL-H	ATP301-TL-H