



<b>Title of Change:</b>	Announcement of lead frame raw material change (PKG name: MFP16FS).		
<b>Effective date:</b>	8 December 2015		
<b>Contact information:</b>	Contact your local ON Semiconductor Sales Office or < <a href="mailto:tetsuya.fukushima@onsemi.com">tetsuya.fukushima@onsemi.com</a> >		
<b>Type of notification:</b>	ON Semiconductor will consider this change accepted.		
<b>Change category:</b>	<input type="checkbox"/> Wafer Fab Change <input checked="" type="checkbox"/> Assembly Change <input type="checkbox"/> Test Change <input type="checkbox"/> Other _____		
<b>Change Sub-Category(s):</b>	<input type="checkbox"/> Manufacturing Site Change/Addition <input checked="" type="checkbox"/> Material Change <input type="checkbox"/> Datasheet/Product Doc change <input type="checkbox"/> Manufacturing Process Change <input type="checkbox"/> Product specific change <input type="checkbox"/> Shipping/Packaging/Marking <input type="checkbox"/> Other: _____		
<b>Sites Affected:</b>	<input type="checkbox"/> All site(s) <input type="checkbox"/> not applicable <input checked="" type="checkbox"/> ON Semiconductor site(s) : ON Tarlac City, Philippines <input type="checkbox"/> External Foundry/Subcon site(s)		

**Description and Purpose:**

The reason is that the existing lead frame raw material will be end of life by January 2016.  
We will replace the existing lead frame raw material C18020 with C19400 (C18020/C19400: ASTM code).

The table below shows comparison of mechanical and chemical properties between two materials.

Material Name		C19400 (alternative)	C18020 (Existing)
<b>Mechanical properties</b>			
Coefficient of Thermal Expansion	X10 <sup>-9</sup> /K	17.6	17.0
Thermal Conductivity	W (m· K)	262	315
Electrical Resistivity	μΩm	0.025	0.021
Electrical Conductivity	%IACS	65	75
Modulus Elasticity	KN/mm <sup>2</sup>	121	123
<b>Chemical properties</b>			
Cu		Remain	Remain
Zn	%	0.05 ~ 0.20	0.10 ~ 0.30
PB	%	Max 0.03	None
Fe	%	2.10 ~ 2.60	None
Pb	%	0.01 ~ 0.15	None
Sn	%	None	Max 0.25

**List of affected Standard Parts:**

LA6584M-MPB-E
LA6584M-MPB-H
LA6584M-TLM-E
LA6584M-TLM-H