



Title of Change:	Datasheet ESD5581-D.PDF and ESD5371-D.PDF V_{BR} Max Limit Change Notification	
Proposed first ship date:	8 May 2018 or earlier upon customer approval	
Contact information:	Contact your local ON Semiconductor Sales Office or <eben.lim@onsemi.com>	
Samples:	Contact your local ON Semiconductor Sales Office	
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or <Nicky.Siu@onsemi.com>	
Type of notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. 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>.	
Change Part Identification:	Marking, Date Code and Part number will remain the same. The datasheet change will only implemented once FPCN expired or with customer approval.	
Change category:	☐ Wafer Fab Change ☐ Assembly Change ☐ Test Change ☒ Other <u>Datasheet V_{BR} max limit</u>	
Change Sub-Category(s):	☐ Manufacturing Site Change/Addition ☐ Material Change ☒ Datasheet/Product Doc change ☐ Manufacturing Process Change ☒ Product specific change ☐ Shipping/Packaging/Marking ☐ Other: _____	
Sites Affected:	ON Semiconductor Sites: ON Seremban, Malaysia	External Foundry/Subcon Sites: None
Description and Purpose: This Final Product Change Notification (FPCN) is notifying customers regarding ESD5581-D.PDF Datasheet V_{BR} max limit change (from 6.5V to 7.5V) and ESD5371-D.PDF Datasheet max V_{BR} limit change (from 6.5V to 7.5V). Upon the expiration of this FPCN, both datasheet will be updated with the new V_{BR} Limit.		
Datasheet Specification	Before Change Description	After Change Description
V_{BR} max limit (IT = 1 mA)	6.5V	7.5V

**Reliability Data Summary:****QV DEVICE NAME:** ESD5581MXT5G**PACKAGE:** X3DFN2, 0.62x0.32, 0.355P

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta = 150°C, V=100% rated Vrwm = 5V	1008 hrs	0/240
HTSL	JESD22 A103	Ta = 150°C	1008 hrs	0/240
PC	J-STD-020, JESD22-A113	MSL 1 @ 260 °C	-	0/720
TC	JESD22 A104	Ta = -65°C to +150°C	1000 cyc	0/240
HAST	JESD22 A110	Ta = 130°C, 85% RH, V=100% rated Vrwm = 5V, psig = ~ 18.8	96 hrs	0/240
IOL	MIL-STD-750 Method 1037	Ta=+25°C, DeltaTj=100°C, On/off=2mins	15000 cyc	0/240
RSH	JESD22- B106	Ta = 265°C, 10 sec	-	0/90
SD	JSTD002	Ta = 245°C, 10 sec	-	0/45

Electrical Characteristic Summary:

There are no changes in electrical characteristic; product performance meets data sheet specifications. Characterization data is available upon request.

List of Affected Standard Parts:

Part Number	Qualification Vehicle
ESD5581MXT5G	ESD5581MXT5G
ESD5581N2T5G	ESD5581MXT5G
ESD5371MXT5G	ESD5581MXT5G



Appendix A: Changed Products

Product	Customer Part Number	Qualification Vehicle
ESD5581MXT5G		ESD5581MXT5G