

**ITS4100S-SJ-N****Smart Power high-side switch for industrial applications****Reference: Data Sheet Rev. 1.0****Overview**

This document lists the errata of the ITS4100S-SJ-N related to the Data Sheet, Rev. 1.0 (2012-09-01).

The ESD ratings for HBM listed in the data sheet according to standard EIA/JESD 22-A 114 do partly differ from allowable ratings of the device for ESD HBM derived from measurement results according to standard ANSI/ESDA/JEDEC JS001 (1.5 k $\Omega$ , 100 pF).

Neither the hardware/silicon of the listed product itself nor the physical properties or the robustness with respect to ESD have changed or were modified.

**Affected Products:**

- ITS4100S-SJ-N

**Description**

**1 Description**

**1.1 ESD ratings for Human Body Model (HBM)**

The ESD ratings for HBM robustness listed in the data sheet according to standard EIA/JESD 22-A 114 do partly differ from allowable ratings of the device for ESD HBM derived from recent measurements according to standard ANSI/ESDA/JEDEC JS001 (1.5 kΩ, 100 pF).

Neither the hardware/silicon nor the ESD robustness of the product itself have changed.

**Table 1** shows the existing discrepancies between the ESD robustness as listed in the datasheet Rev 1.0 and the results of remeasurements according ANSI/ESDA/JEDEC JS001.

**Table 1**

Parameter	Symbol	Values			Unit	Note or Test Condition
		Min.	Typ.	Max.		
<b>ESD Susceptibility for HBM as listed in data sheet Rev. 1.0 according EIA/JESD 22-A 114</b>						
ESD susceptibility (input pin IN)	$V_{ESD}$	-1	-	1	kV	HBM listed in data sheet Rev. 1.0 according EIA/JESD 22-A 114
ESD susceptibility (all other pins)	$V_{ESD}$	-5	-	5	kV	HBM listed in data sheet Rev. 1.0 according EIA/JESD 22-A 114

**Maximum allowable ESD Susceptibility for HBM derived from measurements according ANSI/ESDA/JEDEC JS001 (1.5 kΩ, 100 pF)**

ESD susceptibility (input pin IN)	$V_{ESD}$	-1	-	1	kV	HBM ratings derived from measurements according to ANSI/ESDA/JEDEC JS001 (1.5 kΩ, 100 pF)
ESD susceptibility (output pin OUT)	$V_{ESD}$	-6	-	6	kV	HBM ratings derived from measurements according to ANSI/ESDA/JEDEC JS001 (1.5 kΩ, 100 pF)
ESD susceptibility (all other pins)	$V_{ESD}$	-4	-	4	kV	HBM ratings derived from measurements according to ANSI/ESDA/JEDEC JS001 (1.5 kΩ, 100 pF)

**Planned Fixes**

Update of data sheet: The data sheet will be updated to Rev. 1.1 which will reflect ESD ratings for HBM according to ANSI/ESDA/JEDEC JS001 results.

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