ISP762T
Smart Power high-side switch for industrial applications

Reference: Data Sheet Rev. 1.4

Overview

This document lists the errata of the ISP762T related to the Data Sheet, Rev. 1.4 (2012-12-01).

The ESD ratings for HBM listed in the data sheet according to standard ANSI EOS/ESD – S5.1 - 1993 ESD STM5.1 - 1998 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 kΩ, 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:

- ISP762T

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 ANSI EOS/ESD – S5.1 - 1993 ESD STM5.1 - 1998 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 1.4 and the results of remeasurements according ANSI/ESDA/JEDEC JS001.

Table 1

Parameter	Symbol	Values			Unit	Note or Test Condition
		Min.	Typ.	Max.		
ESD Susceptibility for HBM as listed in data sheet Rev. 1.4 according ANSI EOS/ESD – S5.1 -1993 ESD STM5.1 - 1998						
ESD susceptibility (input pin IN)	V_{ESD}	-1	–	1	kV	HBM listed in data sheet Rev. 1.4 according ANSI EOS/ESD – S5.1 - 1993 ESD STM5.1 - 1998
ESD susceptibility (all other pins)	V_{ESD}	-5	–	5	kV	HBM listed in data sheet Rev. 1.4 according ANSI EOS/ESD – S5.1 - 1993 ESD STM5.1 - 1998
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}	-3	–	3	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. 1.5 which will reflect ESD ratings for HBM according to ANSI/ESDA/JEDEC JS001 results.

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