

TPS6S300 about Dxp in absolute maximum voltage

7.1 Absolute Maximum Ratings

over operating free-air temperature range (unless otherwise noted)⁽¹⁾

			MIN	MAX	UNIT
V _I	Input voltage	V _{PWR}	-0.3	5	V
		RPD_G1, RPD_G2	-0.3	24	V
V _O	Output voltage	FLT	-0.3	6	V
		VBIAS	-0.3	24	V
V _{IO}	I/O voltage	D1, D2	-0.3	6	V
		CC1, CC2, SBU1, SBU2	-0.3	6	V
		C_CC1, C_CC2, C_SBU1, C_SBU2	-0.3	24	V
T _A	Operating free air temperature		-40	85	°C
T _{stg}	Storage temperature		-65	150	°C

Absolute maximum rating is 6V.
However, Break-down voltage is prescribed.
Please tell me the reason.

Dx ESD Protection				
V _{RWM_POS}	Reverse stand-off voltage from Dx to GND	Dx to GND. I _{DX} ≤ 1 μA	5.5	V
V _{RWM_NEG}	Reverse stand-off voltage from GND to Dx	GND to Dx	0	V
V _{BR_POS}	Break-down voltage from Dx to GND	Dx to GND. I _{BR} = 1 mA	7	V
V _{BR_NEG}	Break-down voltage from GND to Dx	GND to Dx. I _{BR} = 8 mA	0.6	V
C _{IO}	Dx to GND or GND to Dx	f = 1 MHz, V _{IO} = 2.5 V	1.7	pF
ΔC _{IO}	Differential capacitance between two Dx pins	f = 1 MHz, V _{IO} = 2.5 V	0.02	pF
R _{DYN}	Dynamic on-resistance Dx IEC Clamps	Dx to GND or GND to Dx	0.4	Ω