Datasheet.pdf:

str.1

Dwa szybkie komparatory analogowe małej mocy z programowalnym wejściem i wyjściem rail-to-rail
https://www.elektroda.pl/rtvforum/topic165784.html - trochę opisane jest działanie wzmacniaczy operacyjnych rail to rail

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Table 18. Voltage characteristics

Symbol	Ratings	Min	Max	Unit
V_{DD}	External supply voltage	- 0.3	4.0	V
V_{BAT}	External supply voltage on VBAT pin	- 0.3	4.0	
V_{REF+}	External voltage on VREF+ pin	- 0.3	Min(V_{DD} + 0.4, 4.0)	
V_{IN}(1)	Input voltage on FT_xx pins except FT_c	- 0.3	V_{DD} + 4.0(2)	
	Input voltage on FT_c pins	- 0.3	5.5	
	Input voltage on any other pin	- 0.3	4.0	

Aby utrzymać napięcie wyższe niż 4 V, wewnętrzne rezystory podciągające/ściągające muszą być wyłączone.

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Table 19. Current characteristics

Symbol	Ratings	Max	Unit
$I_{VDD/VDDA}$	Current into VDD/VDDA power pin (source)(1)	100	mA
$I_{VSS/VSSA}$	Current out of VSS/VSSA ground pin (sink)(1)	100	
$I_{IO(PIN)}$	Output current sunk by any I/O and control pin except FT_f	15	
	Output current sunk by any FT_f pin	20	
	Output current sourced by any I/O and control pin	15	
$\Sigma I_{IO(PIN)}$	Total output current sunk by sum of all I/Os and control pins	80	
	Total output current sourced by sum of all I/Os and control pins	80	
$I_{INJ(PIN)}$(2)	Injected current on a FT_xx pin	-5 / NA(3)	
	Injected current on a TT_a pin(4)	-5 / 0	
$\Sigma\lvert I_{INJ(PIN)}\rvert$	Total injected current (sum of all I/Os and control pins)(5)	25	

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Table 21. General operating conditions (continued)

Symbol	Parameter	Conditions	Min	Max	Unit
V_{BAT}	Backup operating voltage	-	1.55	3.6	V
V_{IN}	I/O input voltage	All except TT_xx and FT_c	-0.3	Min(V_{DD} + 3.6, 5.5)(2)	V
		TT_xx	-0.3	V_{DD} + 0.3	
		FT_c	-0.3	5.0(2)	

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Table 51. I/O static characteristics

Symbol	Parameter	Conditions		Min	Typ	Max	Unit
V_{IL}(1)	I/O input low level voltage	All except FT_c	1.62 V < V_{DDIO1} < 3.6 V	-	-	0.3 x V_{DDIO1} (2)	V
						0.39 x V_{DDIO1} - 0.06 (3)	
		FT_c	2.7 V < V_{DDIO1} < 3.6 V	-	-	0.3 x V_{DDIO1}	
			1.62 V < V_{DDIO1} < 2.7 V	-	-	0.25 x V_{DDIO1}	
V_{IH}(1)	I/O input high level voltage	All except FT_c	1.62 V < V_{DDIO1} < 3.6 V	0.7 x V_{DDIO1} (2)	-	-	V
				0.49 x V_{DDIO1} + 0.26(3)	-	-	
		FT_c	1.62 V < V_{DDIO1} < 3.6 V	0.7 x V_{DDIO1}	-	5	