

## Sipex Part: SP2525 and SP2525A

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### Question:

What are the differences between SP2525 and the newer SP2525A version? Are they completely exchangeable?

### Answer:

The differences need to be considered. See the table below for comparison. For new designs, we recommend the A version. The non-A version status is CF (Check Factory) while the A version status is Active.

Parameter	Units	SP2525			SP2525A		
		min	typ	max	min	typ	max
Operating Voltage Range, $V_{IN}$	V	3		5.5	3		5.5
Supply Current, $I_{IN}$	$\mu$ A		0.05 80	5.0 140		0.75 75	5.0 100
Enable Input Threshold Voltage	V	0.8	2.1 1.9	2.4	0.8	2.1 1.7	2.4
Enable Input Current	$\mu$ A		0.01 0.01	1 1		0.01 0.01	1 1
Enable Input Capacitance	pF		1			1	
Switch Resistance	m $\Omega$		80	140		70	100
Output Turn-On Delay	ms		0.5			0.1	
Output Turn-On Rise Time	ms		1			1	4
Output Turn-Off Delay	$\mu$ s		1	20		0.8	20
Output Turn-Off Fall Time	$\mu$ s		1	20		0.7	20
Output Leakage Current	$\mu$ A		0.02	10			10
Current Limit Threshold	A		2	2.8	0.6	1	1.25
Short Circuit Current Limit	A	0.5	0.75	1.25			
Over-Temperature Shutdown Threshold	$^{\circ}$ C		135 125			135 125	
Error Flag Output Resistance	$\Omega$		10 15	25 40		10 15	25 40
Error Flag Off Current	$\mu$ A		0.01	1		0.01	1
UVLO Threshold	V	2.5	2.7 2.6	3.0		2.6 2.4	