### MC5400/7400 series

### DIVIDE-BY-TWELVE COUNTER

## MC5492F, L\* MC7492F, L, P\*





\*F suffix = TO-86 ceramic flat package (Case 607).
L suffix = TO-116 ceramic dual in-line package (Case 632).
P suffix = TO-116 plastic dual in-line package (Case 605).

				140	5	U	60						ONNEN				IESI CONNENT / VOLTAGE VALUES (AII TEIIIPEIRIUES)		10					
					-	۵				M						Volts								
					R0	a	08			or Io	но	V <sub>a</sub>	۲	VIHH	V <sub>RI</sub>	۲ ۴۰۱	V <sub>th 0</sub>	V <sub>th L</sub>	Vcc	VccL	VccH	1		
					79	90		2:	MC5492	16	-0.4	0.4			-	2.0		0.7			5.5		-	
			Pin	MC549	MC5492 Test Limits	imits	MC74	MC7492 Test Limits	t Limits	01	+ .0-	4 .0	2.4	C.C	4.0	2.0	O DINC 116	0.0 T	-	4.75	0.20			
				-55	-55 to +125°C	S°C	•	0 to +70°C	J				KKENI	AULI	AGE AI	FLIED				ł		Pulse	Pulse	
Characteristic	Syn	Symbol	Test /	Min	Max	Unit	Min	Max	Unit	lot	HOH	V <sub>IL</sub>	V <sub>IH</sub>	VIHH	V <sub>RI</sub>	V <sub>th 1</sub>	V <sub>th 0</sub>	V <sub>th L</sub>	Vcc	VccL	V <sub>ccH</sub>	-	2	Gnd
Input	24	20	a	4	•	1. S. C.		•				0						8						Q.
	-	<sup>1</sup> F	0 5		-1.6	mAac		-1.6	mAdc			0 1-	e i		- 9						o —			q
	55	122	14	. i	-6.4	*	í.,	-6.4	-		1.1	14	- 7		1-1						-		1.1	•
Leakage Current	R0 I	I <sub>R1</sub>	91		40	μAdc	1	40	µAdc	1	•		9				i.			1	5			7,10
	CI		14		80	-a 	i i	80,	1.	, ı	í.	é, i	14	()		i îr		1-1	11	1.1	.,			6,10
	1			1	190	-		160	-		-		-	, ,				'			-	,	'	10
		I <sub>R2</sub>	9 1-	1.1	1.0	mAdc		1.0	mAdc	1.1			jî î	-1 0			1 1	<b>i</b> . i		i i	- a		i i	7,10 6,10
	C1 C2		14 1		×		11	•	+		1.1		¢ i	14			ісі 1.1	i i	3, 1		-			10
Output Output Voltage A	A @ V	VoL	12	1	0.4	Vdc		0.4	Vdc	12	. 1			1	9	6,7,14	•			2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1,10
Short-Circuit Current	IS	Isc		-20	-57	mAdc	-18	-57	mAdc	1	- - -	1. 1. 1. 1.	2 P.V. - 4 C	ų.	1		6,7	1	î	i.	2	14	i.	1,10,12
Output Voltage	^^	VOH		2.4		Vdc	2.4		Vdc		12		1	1		,	6,7,14	17		ß	•	,		1,10
щ	B () V	Vor	11		0.4	Vdc		0.4	Vdc	11		5.7	1			6,7	1	1	1	5	- 1	1		10,14
	ISI	Isc.		-20	-57	mAdc	-18	-57	mAdc					1	1		6,7	1	Ċ1	,	Q	,	1	10,11,14
	· >	V <sub>OH</sub>		2.4	A Cr.	Vdc	2.4		Vdc		Ħ		<	1	1	1	6,7	F		2				10,14
C	c ① v	VoL	6		0.4	Vdc	- 14	0.4	Vdc	6		50	100	1. 	1		6,7	1	1	2				10,14
		Isc	enco	-20	-57	mAdc	-18	-57	mAdc	1			1	1	Ι,	r T			ŝi :	à.	Q		1	9,10,14
	Ň	V <sub>OH</sub>	-	2.4	(	Vdc	2.4	1	Vdc		6			1	1		-	1	١.,	2			,	10,14
IJ	D Q V	V <sub>OL</sub>	8 -	2. 6 . 1	0.4	Vdc	1	0.4	Vdc	80	1	1	1		-i		6,7	1	1	5	1	,	1	10,14
	SI	Isc		-20	-57	mAdc	-18	-57	mAdc	- 1		1				9		•.	1	1	2	1	1	8,10,14
	<b>^</b>	VOH	+	2.4	1	Vdc	2.4		Vdc	1	80	r i i	3 <b>1</b> 1	1	1		•	I	° C	2	1		.1	10,14
Power Requirements (Total Device)									×										in a superior a superio Superior a superior a su		1.11			
Power Supply Drain	10 - 10 	IPD	2	1	40	mAdc	1	46	mAdc	,	1	1		<u>.</u>	1.	- 1	1	i	2	1	. 1	,		6,7,10

Pulse 2: Apply positive pulse prior to taking measurement to set the device in the desired state.  $\int_{GND}^{V} V_{H}$  Maintain ground for measurement. (I) All input, power supply and ground voltages must be maintained between each test unless otherwise noted.

# MC5492F,L, MC7492F,L,P (continued)

10-C2 A 012

ELECTRICAL CHARACTERISTICS



#### SWITCHING TIME TEST CIRCUIT

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