

SWITCHING TIME TEST CIRCUIT

0 GND

400



Input Loading Factor = 1 Output Loading Factor = 30

Total Power Dissipation = 50 mW typ/pky Propagation Delay Time = 13 ns typ



devices. See General Information section for package and chip details.

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Test procedures are shown for only one gate. The other gate is tested in the same manner, Further, test procedures are shown for only one input of the gate under test. To complete testing, sequence through re-maining inputs.

	ŝ		-	-
	perature		V,ho	
	(All Temp		V _{th 1}	
	GE VALUES	Volts	V _{R2}	
	VT/VOLTA		VRI	
	CURREN		VIHH	
	TEST		V _{IH}	
			V _R	
		A	Чон	
		ШA	lor	
2		10	*	
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					î	10	HO	νn.	H	HHIN	V _{R1}	V _{R2}	V _{th 1}	Viho	V _{CC}	VccL	VCCH	
				2		48	-1.2	0.4	2.4	5.5	4.5	5.0	2.0	0.8	5.0	4.5	5.5	
		Pin	T MCBC5-	Test Limits CBC5440/MCB544 -55 to +125°C	Test Limits MCBC5440/MCB5440F -55 to +125°C				TEST CUR	RENT/	VOLTAGE	APPLIED T	TEST CURRENT/VOLTAGE APPLIED TO PINS LISTED BELOW:	ED BELC	: MC			
Characteristic S	Symbol	Test	<	Max	Unit	lor	Чон	VIL	VIH	VIHH	VRI	V _{R2}	V _{th 1}	Viho	Vcc	VccL	V _{ccH}	Gnd
Input Forward Current	Ŀ	1		-1.6	mAdc	-1	1.20	-		6	12,13,14	- <u>E</u>	а.	÷	1	e.	4	11*
Leakage Current	I _{R1}	1	· •	40	μAdc	1		8	1	9	2	. <u>.</u>	4	a.	4	a.	4	11,12,13,14*
	L _{R2}	1	4	1.0	mAdc	3	10	1	1.	1		÷	÷.	3	1	Ł	4	11,12,13,14*
Output Output Voltage	Vol	63	1	.4	Vdc	2	5	¢.	4		à	-1	1,12,13,14	4	3	4		•11
1	нол	2	2.4		Vdc	1	5	4	de .		12,13,14	6	.1.	1		4	4	11*
Short-Circuit Current	Isc	2	-20	-70	mAdc	- 1	-	- 4		•	ĵ.	÷	- 6			÷.	4	1,2,11,12,13,14*
Power Requirements (Total Device) Power Supply Drain	HOdI	4	4	27	mAdc							1,6,7,8,9, 12,13,14					4	п
	Ipdl	4	3	8	mAdc				'	η.		4		÷		4	4	1,11,12,13,14*
Switching Parameters						Pulse	Pulse											
Turn-On Delay	t pd-	1,2	6	15**	su	1	8		12,13,14	1	e.	Ē.	1	i.	4	1		*11
Turn-Off Delay	t pd+	1,2	I.	22**	su	1	2		12,13,14	. 1	• •	-9	1	4	4		÷	•11•

*Ground inputs to gate not under test. **Tested only at 25°C.