



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.

nperatures)		V _{th0}
(All Ten		V _{th 1}
GE VALUES	Volts	V _{R2}
IT/VOLTA		VRI
CURREN		VIHH
TEST		V _{IH}
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$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		-	48	1.2	0.4	2.4	5.5	4.5	5.0	2.0	0.8	5.0	4.5	5.5	
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	st Limits 40/MCB54 to +125°	440F		1	F	ST CURF	ENT/V	OLTAGE /	APPLIED T	O PINS LIST	ED BELC	.W.			
$\begin{tabular}{ liput} Forward Current & I_F & 1 & - & -1.6 & mAdc \\ Leakage Current & I_R & 1 & - & 40 & \muAdc \\ Leakage Current & I_R & 1 & - & 40 & \muAdc \\ I_R & 1 & - & 1.0 & mAdc \\ Output & & & & & & & & & & & & & & & & & & &$	Max U	, te	б	но	<"	V _{IH}	HHI	VRI	V _{R2}	V.h.1	Viho	Vcc	VccL	Vcch	Gnd
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	-1.6 m.	Adc		7	-			(2,13,14	- 25	- 3-		1	e.	4	*11
$\begin{tabular}{ c c c c c c c } & I_R2 & 1 & - & 1.0 & mAdc \\ \hline \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	40 µ.	Adc				1		1	1	-1	a.		4	4	11,12,13,14*
Output Voltage V _{OL} 2 - 0.4 Vac Output Voltage V _{OH} 2 2.4 - Vdc Short-Circuit Current I _{SC} 2 -20 -70 mAdc Power Requirements I _{PDH} 4 - 27 mAdc Power Supply Drain I _{PDL} 4 - 8 mAdc	1.0 m	Adc				,	I		×	÷.	3	î.	ł.	4	11,12,13,14*
VOH 2 2.4 - Vdc Short-Circuit Current I _{SC} 2 -20 -70 mAdc Power Requirements ISC 2 -20 -70 mAdc Power Supply Drain I _{PDH} 4 - 27 mAdc IPDL 4 - 8 mAdc	0.4 V	dc	8	5	e e		· ·	à		1,12,13,14	4	3	4	4	*11
Short-Circuit Current I _{SC} 2 -20 -70 mAdc Power Requirements (Total Device) Power Supply Drain I _{PDL} 4 - 8 mAdc		dc		5		1.		13,14	9.		1		4		11*
Power Requirements (Total Device) Power Supply Drain IPDH 4 - 27 mAdc IPDL 4 - 8 mAdc	-70 m/	Adc			a.			i		- 4		4		4	1,2,11,12,13,14*
IpDL 4 - 8 mAdc	27 m/	Adc	-						1,6,7,8,9, 12,13,14	.a.				4	п
	8 m/	Adc				,	0.1		4	,	,		1	4	1,11,12,13,14*
Switching Parameters		۹.	ulse P	ulse											8
Turn-On Delay t _{pd-} 1,2 - 15** ns	15** n	s	-	57	- 12	,13,14	1	.e	£.	1		4	1	10	*11
Turn-Off Delay t _{pd+} 1,2 - 22** ns	22** n	g	1	2	- 12	,13,14		. 1	-0	- 12	4	4	÷.	di la	*11

MCBC5440, MCB5440F (continued)

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