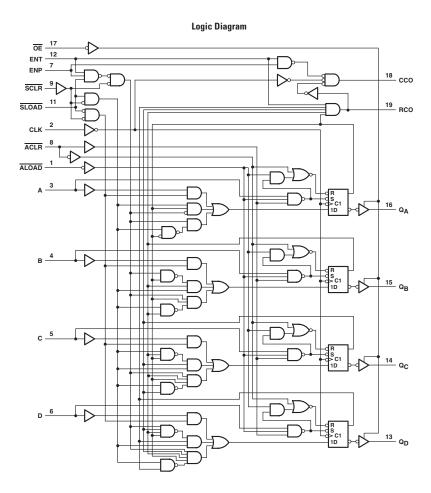
SYNCHRONOUS 4-BIT COUNTERS WITH 3-STATE OUTPUTS

- 3-State Outputs
- Choice of Asynchronous or Synchronous Clearing and Loading
- Internal Look-Ahead Circuitry for Fast Cascading



FUNCTION TABLE

	INPUTS								OPERATION	
Г	ŌĒ	ACLR	ALOAD	SCLR	SLOAD	ENT	ENP	CLK	OPERATION	
Γ	Н	Х	Х	Х	Х	Х	Х	Х	Q outputs disabled	
ı	L	L	Х	Х	X	Х	X	X	Asynchronous clear	
ı	L	Н	L	Х	X	Х	X	X	Asynchronous load	
П	L	Н	Н	L	Х	Χ	Х	1	Synchronous clear	
П	L	Н	Н	Н	L	Х	X	1	Synchronous load	
ı	L	Н	н	Н	Н	Н	Н	1	Count	
ı	L	Н	Н	Н	Н	L	X	X	Inhibit counting	
L	L	Н	Н	Н	Н	Х	L	Х	Inhibit counting	

ELECTRICAL CHARACTERISTICS AND RECOMMENDED OPERATING CONDITIONS

PARAI	METER	MAX or MIN	ALS	UNIT	
lcc		MAX	36	mA	
Іон	OUTPUT Q	MAX	-2.6	mA	
lun	CCO & RCO	MAX	-0.4	mA	
loL	OUTPUT Q	MAX	24	mA	
IUL	CCO & RCO	MAX	8	mΑ	

TIMING	REQUREMENTS AN	SWITCHING CHA	RACTERISTICS		
F	PARAMETER	INPUT OUTPUT		MAX or MIN	ALS
fmax				MIN	30
tw	CLK "H"			MIN	16.5
	CLK "L"			IVIIIV	16.5
tsu	ENP or H				20
	ENT L				20
	A, B, C, D				20
	SCLR L			MIN	15
	H]			30
	SLOAD L				15
	H				30
th				MIN	0
tPLH		CLK	a	MAX	12
tPHL		OEK	ď		18
tPLH		CLK	RCO	MAX	29
tPHL		GLK	1100	WAX	24
tPLH		ALOAD	a	MAX	35
tPHL .		ALUAD	ū		23
tPLH		ĀLOAD	CCO	MAX	55
t _{PHL}			660		33
tPLH		ENT	RCO	MAX	16
tPHL		EINI	nc0	IVIAX	14
tPHL		ACLR	Q	MAX	22

UNIT fmax : MHz, other : ns