抗辐射航空级裸片，四路 2 输入正与门。

查询样品: SN54HC273-DIE

特性

- 宽运行电压范围
- 输出可驱动多达 **10** 个低功耗肖特基晶体管逻辑电路 **(LSTTL)** 负载
- 低功耗
- t_{pd}典型值 **= 12ns**
- 低输入电流
- 包含 **8** 个具有单轨输出的触发器
- 清零直接输入
- 应用包括：
  - 缓冲器/存储寄存器
  - 移位寄存器
  - 图形发生器

说明

数据 (D) 输入上满足设置时间要求的信息被发送到时钟 (CLK) 脉冲正向边沿上的 Q 输出。 时钟触发出现在一个特定电压电平上，并且不与正向脉冲的转换时间直接相关。 当 CLK 处于高电平或低电平时，D 输入对输出无影响。

表 **1.** 功能表
（每个触发器）

输入			输出
$\overline{CLR}$	CLK	D	Q
L	X	X	L
H	↑	H	H
H	↑	L	L
H	L	X	Q_0

ORDERING INFORMATION(1)

PRODUCT	PACKAGE DESIGNATOR	PACKAGE	ORDERABLE PART NUMBER	PACKAGE QUANTITY
SN54HC273V	TD	Bare die in waffle pack(2)	SN54HC273VTDG1	100
			SN54HC273VTDG2	10

(1) For the most current package and ordering information, see the Package Option Addendum at the end of this document, or see the TI web site at www.ti.com.

(2) Processing is per the Texas Instruments space production baseline and is in compliance with the Texas Instruments Quality Control System in effect at the time of manufacture. Electrical screening consists of DC parametric and functional testing at room temperature only. Unless otherwise specified by Texas Instruments AC performance and performance over temperature is not warranted. Visual Inspection is performed in accordance with MIL-STD-883 Test Method 2010 Condition B at 75X minimum.

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PRODUCTION DATA information is current as of publication date. Products conform to specifications per the terms of the Texas Instruments standard warranty. Production processing does not necessarily include testing of all parameters.

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This integrated circuit can be damaged by ESD. Texas Instruments recommends that all integrated circuits be handled with appropriate precautions. Failure to observe proper handling and installation procedures can cause damage.

ESD damage can range from subtle performance degradation to complete device failure. Precision integrated circuits may be more susceptible to damage because very small parametric changes could cause the device not to meet its published specifications.

BARE DIE INFORMATION

DIE THICKNESS	BACKSIDE FINISH	BACKSIDE POTENTIAL	BOND PAD METALLIZATION COMPOSITION	BOND PAD THICKNESS
10.5 mils.	Silicon with backgrind	Floating	TiW/AlCu2%	1210 nm

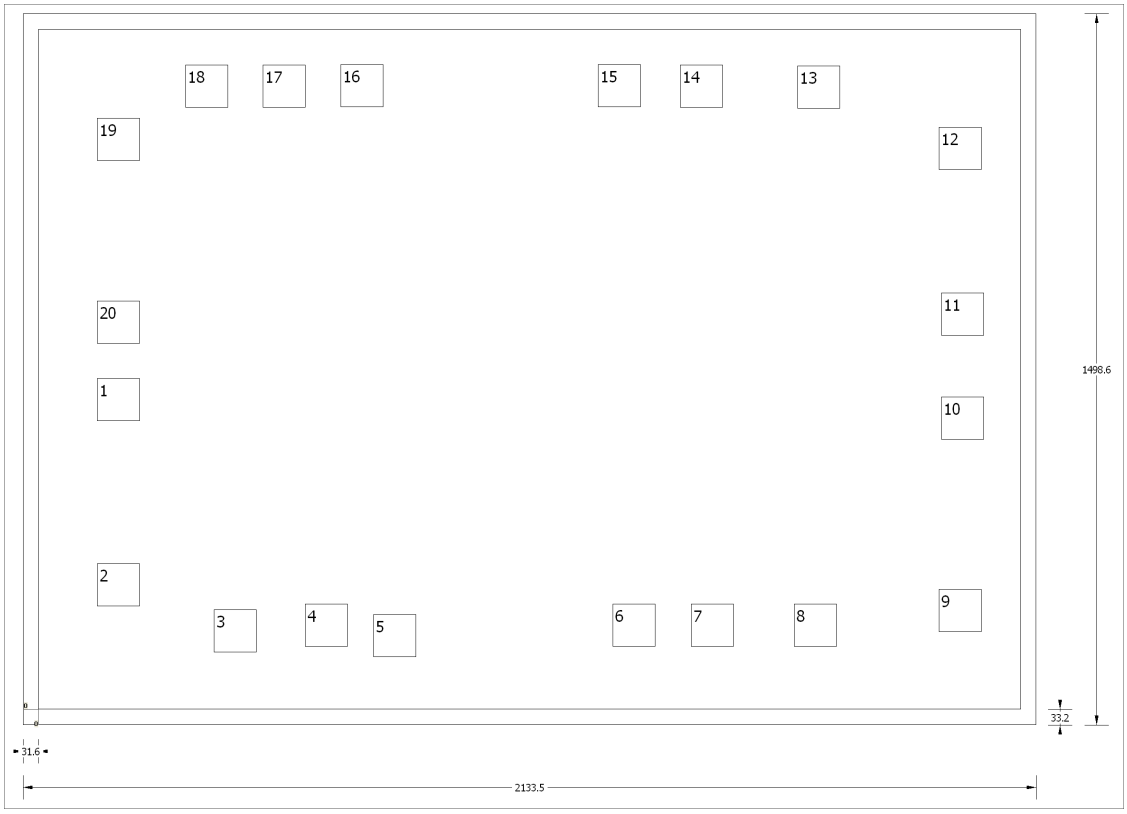

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Table 2. Bond Pad Coordinates in Microns

DESCRIPTION	PAD NUMBER	X MIN	Y MIN	X MAX	Y MAX
CLR	1	124.05	606.65	214.05	696.65
1Q	2	124.05	216.95	214.05	306.95
1D	3	369.75	119.75	459.75	209.75
2D	4	562.35	132.35	652.35	222.35
2Q	5	706.35	109.85	796.35	199.85
3Q	6	1210.35	132.35	1300.35	222.35
3D	7	1375.05	132.35	1465.05	222.35
4D	8	1591.95	132.35	1681.95	222.35
4Q	9	1897.05	162.95	1987.05	252.95
GND	10	1901.55	567.95	1991.55	657.95
CLK	11	1901.55	786.65	1991.55	876.65
5Q	12	1897.05	1135.85	1987.05	1225.85
5D	13	1599.15	1264.55	1689.15	1354.55
6D	14	1351.65	1267.25	1441.65	1357.25
6Q	15	1178.85	1268.15	1268.85	1358.15
7Q	16	637.05	1268.15	727.05	1358.15
7D	17	473.25	1267.25	563.25	1357.25
8D	18	310.35	1267.25	400.35	1357.25
8Q	19	124.05	1154.75	214.05	1244.75
VCC	20	124.05	769.55	214.05	859.55

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PACKAGING INFORMATION

Orderable part number	Status (1)	Material type (2)	Package | Pins	Package qty | Carrier	RoHS (3)	Lead finish/ Ball material (4)	MSL rating/ Peak reflow (5)	Op temp (°C)	Part marking (6)
SN54HC273VTDG1	Active	Production	null (null) | 0	100 | JEDEC TRAY (5+1)	No	Call TI	N/A for Pkg Type	25 to 25	
SN54HC273VTDG1.A	Active	Production	null (null) | 0	100 | JEDEC TRAY (5+1)	No	Call TI	N/A for Pkg Type	25 to 25	
SN54HC273VTDG2	Active	Production	null (null) | 0	10 | JEDEC TRAY (5+1)	No	Call TI	N/A for Pkg Type	25 to 25	
SN54HC273VTDG2.A	Active	Production	null (null) | 0	10 | JEDEC TRAY (5+1)	No	Call TI	N/A for Pkg Type	25 to 25	

(1) **Status:** For more details on status, see our product life cycle.

(2) **Material type:** When designated, preproduction parts are prototypes/experimental devices, and are not yet approved or released for full production. Testing and final process, including without limitation quality assurance, reliability performance testing, and/or process qualification, may not yet be complete, and this item is subject to further changes or possible discontinuation. If available for ordering, purchases will be subject to an additional waiver at checkout, and are intended for early internal evaluation purposes only. These items are sold without warranties of any kind.

(3) **RoHS values:** Yes, No, RoHS Exempt. See the TI RoHS Statement for additional information and value definition.

(4) **Lead finish/Ball material:** Parts may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead finish/Ball material values may wrap to two lines if the finish value exceeds the maximum column width.

(5) **MSL rating/Peak reflow:** The moisture sensitivity level ratings and peak solder (reflow) temperatures. In the event that a part has multiple moisture sensitivity ratings, only the lowest level per JEDEC standards is shown. Refer to the shipping label for the actual reflow temperature that will be used to mount the part to the printed circuit board.

(6) **Part marking:** There may be an additional marking, which relates to the logo, the lot trace code information, or the environmental category of the part.

Multiple part markings will be inside parentheses. Only one part marking contained in parentheses and separated by a "~" will appear on a part. If a line is indented then it is a continuation of the previous line and the two combined represent the entire part marking for that device.

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OTHER QUALIFIED VERSIONS OF SN54HC273-DIE :

- Space : SN54HC273-SP

NOTE: Qualified Version Definitions:

- Space - Radiation tolerant, ceramic packaging and qualified for use in Space-based application

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