

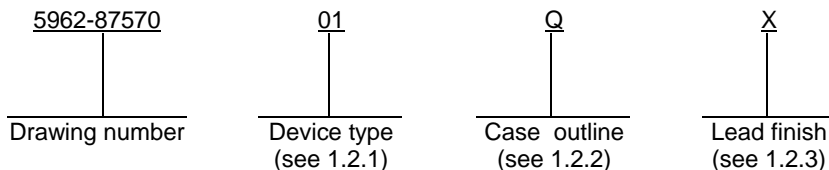
REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
A	Technical changes to table I. Editorial changes throughout.	92-10-27	Monica L. Poelking
B	Changes in accordance with NOR 5962-R019-99.	99-01-28	Monica L. Poelking
C	Incorporated revision B and updated boilerplate and editorial changes throughout. Added Rochester Electronics as source of supply CAGE code 3V146. - LTG	00-10-19	Thomas M. Hess
D	Update boilerplate to MIL-PRF-38535 requirements. - LTG	01-04-02	Thomas M. Hess
E	Update boilerplate to current MIL-PRF-38535 requirements. - CFS	07-06-25	Thomas M. Hess

REV																			
SHEET																			
REV	E																		
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REV STATUS	REV	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14				
PMIC N/A	PREPARED BY	Ray Monnin																	
STANDARD MICROCIRCUIT DRAWING THIS DRAWING IS AVAILABLE FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE AMSC N/A	CHECKED BY	D. A. DiGenzo																	
	APPROVED BY	N. A. Hauck																	
	DRAWING APPROVAL DATE	87-07-02																	
	REVISION LEVEL	E																	
		SIZE	CAGE CODE	5962-87570															
		A	67268																
		SHEET	1 OF 15																
		DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43218-3990 http://www.dsc.dla.mil MICROCIRCUIT, DIGITAL, PROGRAMMABLE PERIPHERAL INTERFACE, MONOLITHIC SILICON																	

1. SCOPE

1.1 Scope. This drawing describes device requirements for MIL-STD-883 compliant, non-JAN class level B microcircuits in accordance with MIL-PRF-38535, appendix A.

1.2 Part or Identifying Number (PIN). The complete PIN is as shown in the following example:



1.2.1 Device type(s). The device type(s) identify the circuit function as follows:

<u>Device type</u>	<u>Generic number</u>	<u>Circuit function</u>
01	8255A	Programmable peripheral interface
02	8255A-5	Programmable peripheral interface

1.2.2 Case outlines. The case outlines are as designated in MIL-STD-1835 and as follows:

<u>Outline letter</u>	<u>Descriptive designator</u>	<u>Terminals</u>	<u>Package style</u>
Q	GCIP1-T40 or CDIP2-T40	40	Dual-in-line
X	CQCC1-N44	44	Square leadless chip carrier

1.2.3 Lead finish. The lead finish is as specified in MIL-PRF-38535, appendix A.

1.3 Absolute maximum ratings.

Supply voltage range	-0.5 V dc to +7.0 V dc
Input voltage range	-0.5 V dc to +7.0 V dc
Storage temperature range	-65°C to +150°C
Maximum power dissipation (P _D)	1.0 W ^{1/}
Thermal resistance, junction-to-case (θ _{JC}):	
Case Q	See MIL-STD-1835
Case X	See MIL-STD-1835
Junction temperature (T _J)	+126.9°C
Lead temperature (soldering, 10 seconds)	+300°C

1.4 Recommended operating conditions.

Supply voltage range (V _{CC})	+5.0 V dc ±10 percent
Minimum high level input voltage (V _{IH})	+2.2 V dc
Maximum low level input voltage (V _{IL})	+0.8 V dc
Minimum low level input voltage (V _{IL})	-0.5 V dc
Maximum high level input voltage (V _{IH})	+5.5 V dc
Case operating temperature range (T _C)	-55°C to +125°C

^{1/} Must withstand the added P_D due to short circuit test (e.g., I_{OS}).

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2. APPLICABLE DOCUMENTS

2.1 Government specification, standards, and handbooks. The following specification, standards, and handbooks form a part of this drawing to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract.

DEPARTMENT OF DEFENSE SPECIFICATION

MIL-PRF-38535 - Integrated Circuits, Manufacturing, General Specification for.

DEPARTMENT OF DEFENSE STANDARDS

MIL-STD-883 - Test Method Standard Microcircuits.
 MIL-STD-1835 - Interface Standard Electronic Component Case Outlines.

DEPARTMENT OF DEFENSE HANDBOOKS

MIL-HDBK-103 - List of Standard Microcircuit Drawings.
 MIL-HDBK-780 - Standard Microcircuit Drawings.

(Copies of these documents are available online at <http://assist.daps.dla.mil/quicksearch/> or <http://assist.daps.dla.mil> or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

2.2 Order of precedence. In the event of a conflict between the text of this drawing and the references cited herein, the text of this drawing takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 Item requirements. The individual item requirements shall be in accordance with MIL-PRF-38535, appendix A for non-JAN class level B devices and as specified herein. Product built to this drawing that is produced by a Qualified Manufacturer Listing (QML) certified and qualified manufacturer or a manufacturer who has been granted transitional certification to MIL-PRF-38535 may be processed as QML product in accordance with the manufacturers approved program plan and qualifying activity approval in accordance with MIL-PRF-38535. This QML flow as documented in the Quality Management (QM) plan may make modifications to the requirements herein. These modifications shall not affect form, fit, or function of the device. These modifications shall not affect the PIN as described herein. A "Q" or "QML" certification mark in accordance with MIL-PRF-38535 is required to identify when the QML flow option is used. This drawing has been modified to allow the manufacturer to use the alternate die/fabrication requirements of paragraph A.3.2.2 of MIL-PRF-38535 or other alternative approved by the qualifying activity.

3.2 Design, construction, and physical dimensions. The design, construction, and physical dimensions shall be as specified in MIL-PRF-38535, appendix A and herein.

3.2.1 Case outlines. The case outlines shall be in accordance with 1.2.2 herein.

3.2.2 Terminal connections. The terminal connections shall be as specified on figure 1.

3.2.3 Truth table. The truth table shall be as specified on figure 2.

3.2.4 Block diagram. The block diagram shall be as specified on figure 3.

3.2.5 Timing waveforms. The timing waveforms shall be as specified on figure 4.

3.3 Electrical performance characteristics. Unless otherwise specified herein, the electrical performance characteristics are as specified in table I and shall apply over the full case operating temperature range.

3.4 Electrical test requirements. The electrical test requirements shall be the subgroups specified in table II. The electrical tests for each subgroup are described in table I.

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3.5 Marking. Marking shall be in accordance with MIL-PRF-38535, appendix A. The part shall be marked with the PIN listed in 1.2 herein. In addition, the manufacturer's PIN may also be marked. For packages where marking of the entire SMD PIN number is not feasible due to space limitations, the manufacturer has the option of not marking the "5962-" on the device.

3.5.1 Certification/compliance mark. A compliance indicator "C" shall be marked on all non-JAN devices built in compliance to MIL-PRF-38535, appendix A. The compliance indicator "C" shall be replaced with a "Q" or "QML" certification mark in accordance with MIL-PRF-38535 to identify when the QML flow option is used. For product built in accordance with A.3.2.2 of MIL-PRF-38535, or as modified in the manufacturer's QM plan, the "QD" certification mark shall be used in place of the "Q" or "QML" certification mark.

3.6 Certificate of compliance. A certificate of compliance shall be required from a manufacturer in order to be listed as an approved source of supply in MIL-HDBK-103 (see 6.6 herein). The certificate of compliance submitted to DSCC-VA prior to listing as an approved source of supply shall affirm that the manufacturer's product meets the requirements of MIL-PRF-38535, appendix A and the requirements herein.

3.7 Certificate of conformance. A certificate of conformance as required in MIL-PRF-38535, appendix A shall be provided with each lot of microcircuits delivered to this drawing.

3.8 Notification of change. Notification of change to DSCC-VA shall be required for any change that affects this drawing.

3.9 Verification and review. DSCC, DSCC's agent, and the acquiring activity retain the option to review the manufacturer's facility and applicable required documentation. Offshore documentation shall be made available onshore at the option of the reviewer.

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TABLE I. Electrical performance characteristics.

Test	Symbol	Conditions -55°C ≤ T _C ≤ +125°C 4.5 V ≤ V _{CC} ≤ 5.5 V unless otherwise specified	Group A subgroups	Device type	Limits		Unit
					Min	Max	
Low-level input voltage	V _{IL}	V _{CC} = 5.5 V, V _{CC} = 4.5 V	All	1, 2, 3		0.8	V
High-level input voltage	V _{IH}	V _{CC} = 5.5 V, V _{CC} = 4.5 V	All	1, 2, 3	2.2		V
Output low voltage- DATABUS	V _{OL}	V _{CC} = 5.5 V, I _{OL} = 2.5 mA	All	1, 2, 3		0.45	V
Output low voltage- PORTS	V _{OL}	V _{CC} = 5.5 V, I _{OL} = 1.7 mA	All	1, 2, 3		0.45	V
Output high voltage- DATABUS	V _{OH}	V _{CC} = 4.5 V, I _{OH} = -400 μA	All	1, 2, 3	2.4		V
Output high voltage- PORTS	V _{OH}	V _{CC} = 4.5 V, I _{OH} = -200 μA	All	1, 2, 3	2.4		V
Darlington drive current	I _{DAR}	V _{CC} = 5.5 V, V _{CC} = 4.5 V (Ports B and C)	All	1, 2, 3	-1.0	-4.0	mA
Power supply current	I _{CC}	V _{CC} = 5.5 V <u>1/</u>	All	1, 2, 3		120	mA
Input load current	I _{IL}	V _{CC} = 5.5 V V _{IN} = 5.5 V to 0.0 V	All	1, 2, 3	-10.0	+10.0	μA
Output float leakage	I _{OFL}	V _{CC} = 5.5 V V _{OUT} = 5.5 V to 0.45 V	All	1, 2, 3	-10.0	+10.0	μA
Input capacitance	C _{IN}	T _C = +25°C, F _C = 1 MHz See 4.3.1c	All	4		25	pF
I/O capacitance	C _{I/O}	T _C = +25°C, see 4.3.1c Unmeasured pins are returned to ground. V _{CC} = GND = 0.0 V	All	4		25	pF
Functional tests		See 4.3.1d	All	7, 8			
Address stable before READ	t _{AR}	V _{CC} = 5.5 V, 4.5V V _{IH} = 2.4 V, V _{IL} = 0.45 V	All	9, 10, 11	0.0		ns
Address stable after READ	t _{RA}	V _{OH} = 2.0 V, V _{OL} = 0.8 V C _L = 100 pF	All	9, 10, 11	0.0		ns
READ pulse width	t _{RR}	See figure 4	All	9, 10, 11	300.0		ns
Data valid from READ	t _{RD}		01	9, 10, 11		250.0	ns
			02	9, 10, 11		200.0	
Data float after READ	t _{DF} <u>2/</u>		01	9, 10, 11	10.0	150.0	ns
					<u>3/</u>		
			02	9, 10, 11	10.0	100.0	

See footnotes at end of table.

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TABLE I. Electrical performance characteristics - Continued.

Test	Symbol	Conditions -55°C ≤ T _C ≤ +125°C 4.5 V ≤ V _{CC} ≤ 5.5 V unless otherwise specified	Group A subgroups	Device type	Limits		Unit
					Min	Max	
Time between READS and/or WRITES	t _{RV}	V _{CC} = 5.5 V, 4.5V V _{IH} = 2.4 V, V _{IL} = 0.45 V V _{OH} = 2.0 V, V _{OL} = 0.8 V C _L = 100 pF See figure 4	All	9, 10, 11	850.0		ns
Address stable before WRITE	t _{AW}		All	9, 10, 11	0.0		ns
Address stable after WRITE	t _{WA}		All	9, 10, 11	20.0		ns
Write pulse width	t _{WW}		01	9, 10, 11	400.0		ns
			02	9, 10, 11	300.0		
Data valid to WRITE (T. E.)	t _{DW}		All	9, 10, 11	100.0		ns
Data valid after WRITE	t _{WD}		All	9, 10, 11	30.0		ns
WRITE = 1 to output	t _{WB}		All	9, 10, 11		350.0	ns
Peripheral data before READ	t _{IR}		All	9, 10, 11	0.0		ns
Peripheral data after READ	t _{HR}		All	9, 10, 11	0.0		ns
ACK pulse width	t _{AK}		All	9, 10, 11	300.0		ns
STB pulse width	t _{ST}		All	9, 10, 11	500.0		ns
Peripheral data before T. E. of STB	t _{PS}		All	9, 10, 11	0.0		ns
Peripheral data after T. E. of STB	t _{PH}		All	9, 10, 11	180.0		ns
ACK = 0 to output	t _{AD}		All	9, 10, 11		300.0	ns
ACK = 1 to output float	t _{KD}		All	9, 10, 11	20.0	250.0	ns
					3/	3/	
WRITE = 1 to OBF = 0	t _{WOB}		All	9, 10, 11		650.0	ns
ACK = 0 to OBF = 1	t _{AOB}		All	9, 10, 11		350.0	ns
STB = 0 to IBF = 1	t _{SIB}		All	9, 10, 11		300.0	ns
READ = 1 to IBF = 0	t _{RIB}	All	9, 10, 11		300.0	ns	
READ = 0 to INTR = 0	t _{RIT}	All	9, 10, 11		400.0	ns	
STB = 1 to INTR = 1	t _{SIT}	All	9, 10, 11		300.0	ns	
ACK = 1 to INTR = 1	t _{AIT}	All	9, 10, 11		350.0	ns	
WRITE = 0 to INTR = 0 4/	t _{WIT}	All	9, 10, 11		850.0	ns	

1/ I_{CC} test conditions: The supply current is measured with loaded outputs while running ac patterns.

2/ AC float timing parameters t_{DF} and t_{KD} are tested logic 0 to float only.

3/ Guaranteed if not tested.

4/ When measured from WRITE = 0 to INTR = 0, the limits shall be as follows: For device type 01, maximum limit shall be as specified at 850 ns.

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Device type	All		
Case outline	X		
Terminal number	Terminal symbol	Terminal number	Terminal symbol
1	PA ₃	23	PB ₄
2	PA ₂	24	PB ₅
3	PA ₁	25	PB ₆
4	PA ₀	26	PB ₇
5	RD	27	V _{CC}
6	CS	28	NC
7	GND	29	NC
8	NC	30	D ₇
9	A ₁	31	D ₆
10	A ₀	32	D ₅
11	PC ₇	33	D ₄
12	PC ₆	34	D ₃
13	PC ₅	35	D ₂
14	PC ₄	36	D ₁
15	PC ₀	37	D ₀
16	PC ₁	38	RESET
17	PC ₂	39	NC
18	PC ₃	40	WR
19	PB ₀	41	PA ₇
20	PB ₁	42	PA ₆
21	PB ₂	43	PA ₅
22	PB ₃	44	PA ₄

Device type	All		
Case outline	Q		
Terminal number	Terminal symbol	Terminal number	Terminal symbol
1	PA ₃	21	PB ₃
2	PA ₂	22	PB ₄
3	PA ₁	23	PB ₅
4	PA ₀	24	PB ₆
5	RD	25	PB ₇
6	CS	26	V _{CC}
7	GND	27	D ₇
8	A ₁	28	D ₆
9	A ₀	29	D ₅
10	PC ₇	30	D ₄
11	PC ₆	31	D ₃
12	PC ₅	32	D ₂
13	PC ₄	33	D ₁
14	PC ₀	34	D ₀
15	PC ₁	35	RESET
16	PC ₂	36	WR
17	PC ₃	37	PA ₇
18	PB ₀	38	PA ₆
19	PB ₁	39	PA ₅
20	PB ₂	40	PA ₄

FIGURE 1. Terminal connections.

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A ₁	A ₀	\overline{RD}	\overline{WR}	\overline{CS}	Input operation (read)
0	0	0	1	0	Port A-data bus
0	1	0	1	0	Port B-data bus
1	0	0	1	0	Port C-data bus
					Output operation (write)
0	0	1	0	0	Data bus-port A
0	1	1	0	0	Data bus-port B
1	0	1	0	0	Data bus-port C
1	1	1	0	0	Data bus-control
					Disable function
X	X	X	X	1	Data bus-three-state
1	1	0	1	0	Illegal condition
X	X	1	1	0	Data bus three-state

FIGURE 2. Truth table.

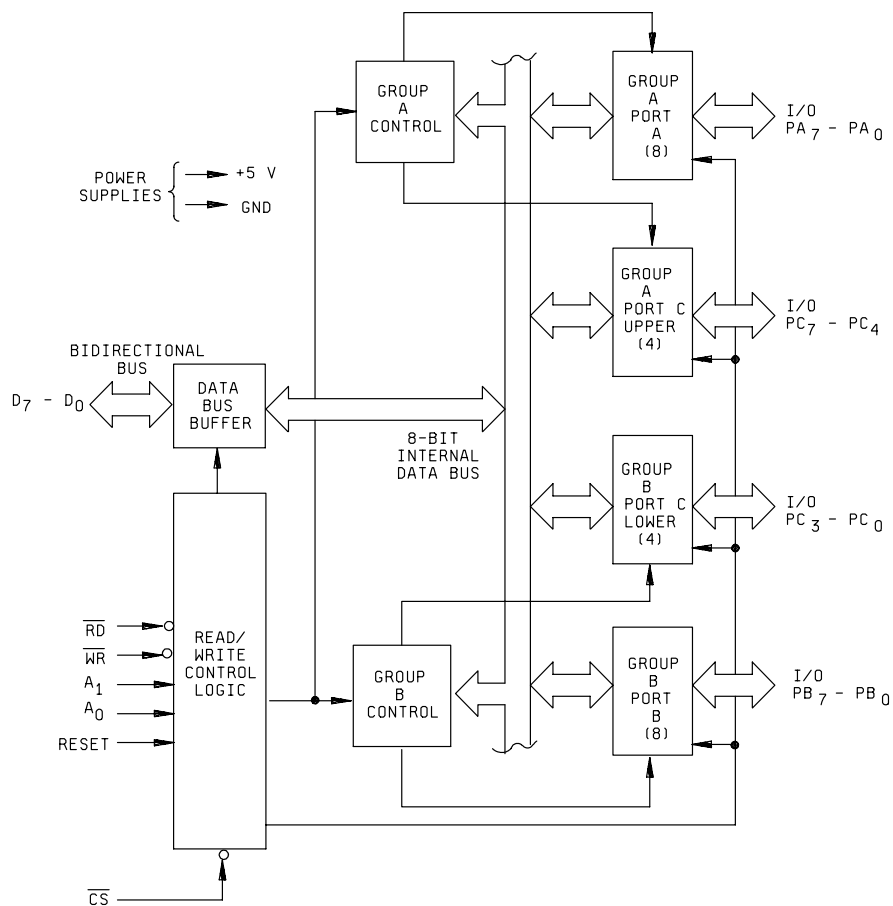


FIGURE 3. Logic diagram.

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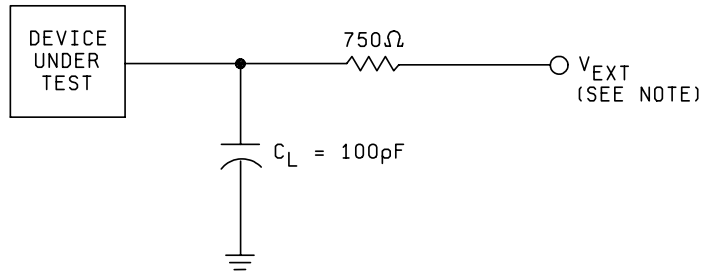
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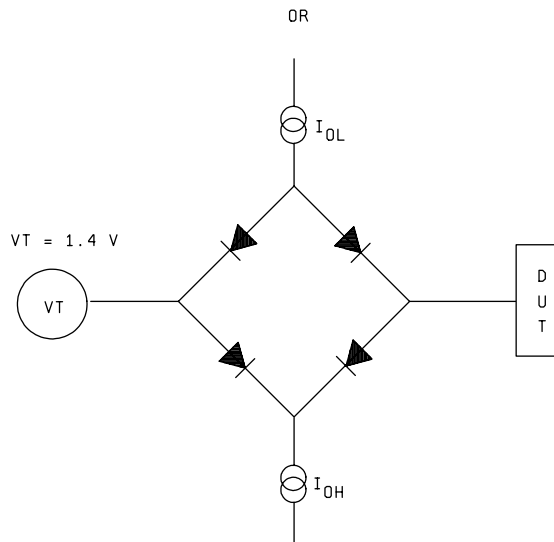
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AC testing load circuits

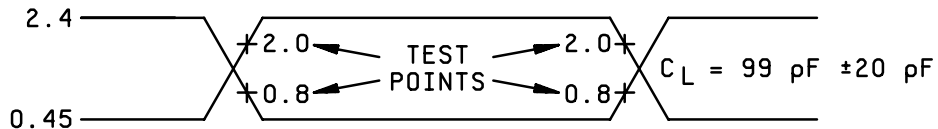


NOTE: V_{EXT} is set at various voltages during testing to guarantee the specification.



NOTE: This test circuit is the dynamic load.

AC testing input and output waveforms



NOTE: AC testing. Inputs are driven at 2.4 V for a logic "1" and 0.45 V for a logic "0". Timing measurements are made at 2.0 V for a logic "1" and 0.8 V for a logic "0".

FIGURE 4. Timing waveforms.

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Switching waveforms

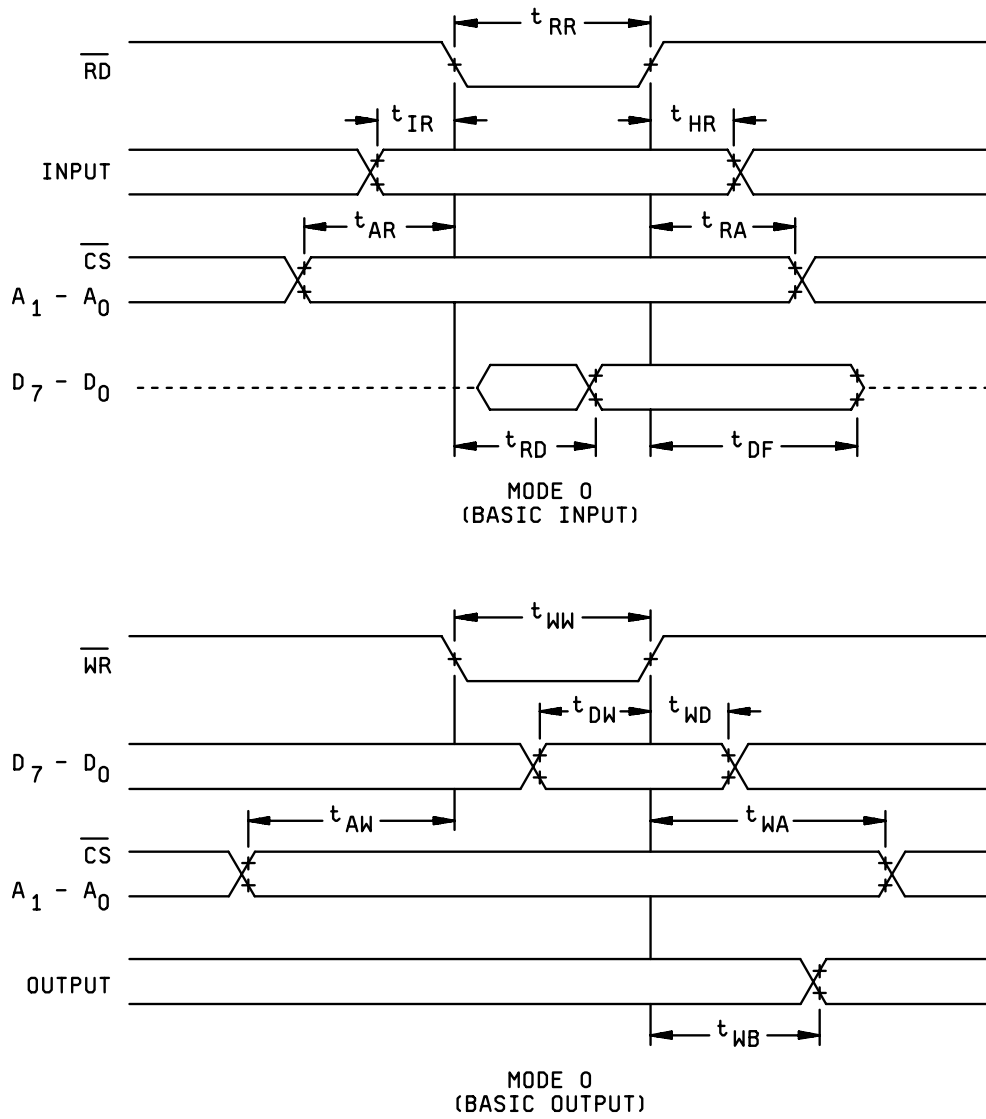


FIGURE 4. Timing waveforms - Continued.

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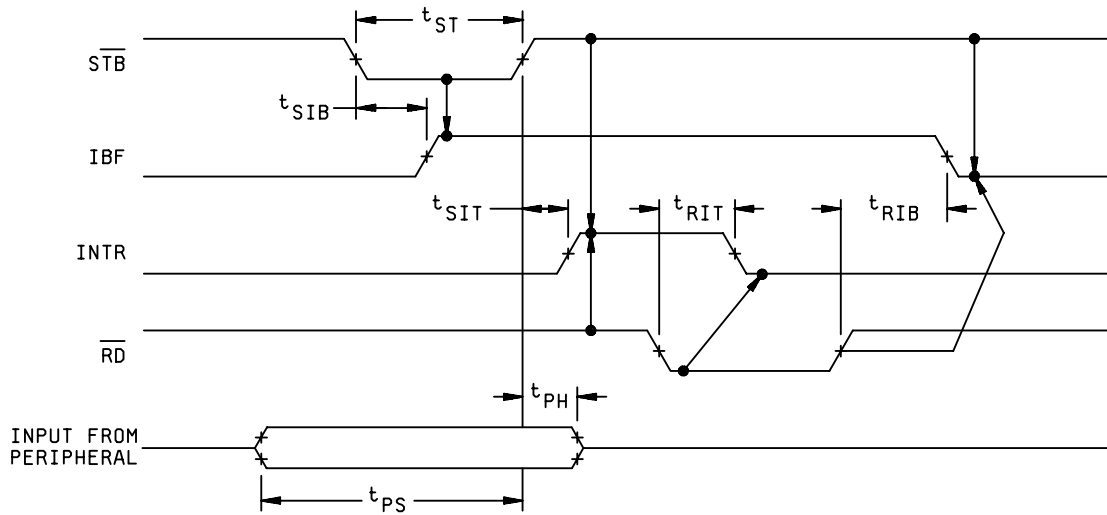
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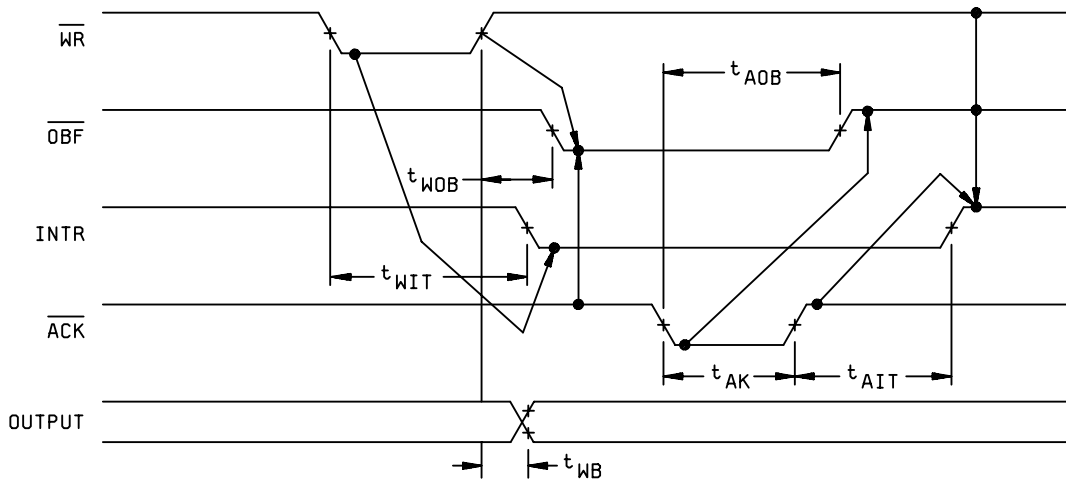
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Switching waveforms



MODE 1 (STROBED INPUT)



MODE 1 (STROBED OUTPUT)

FIGURE 4. Timing waveforms - Continued.

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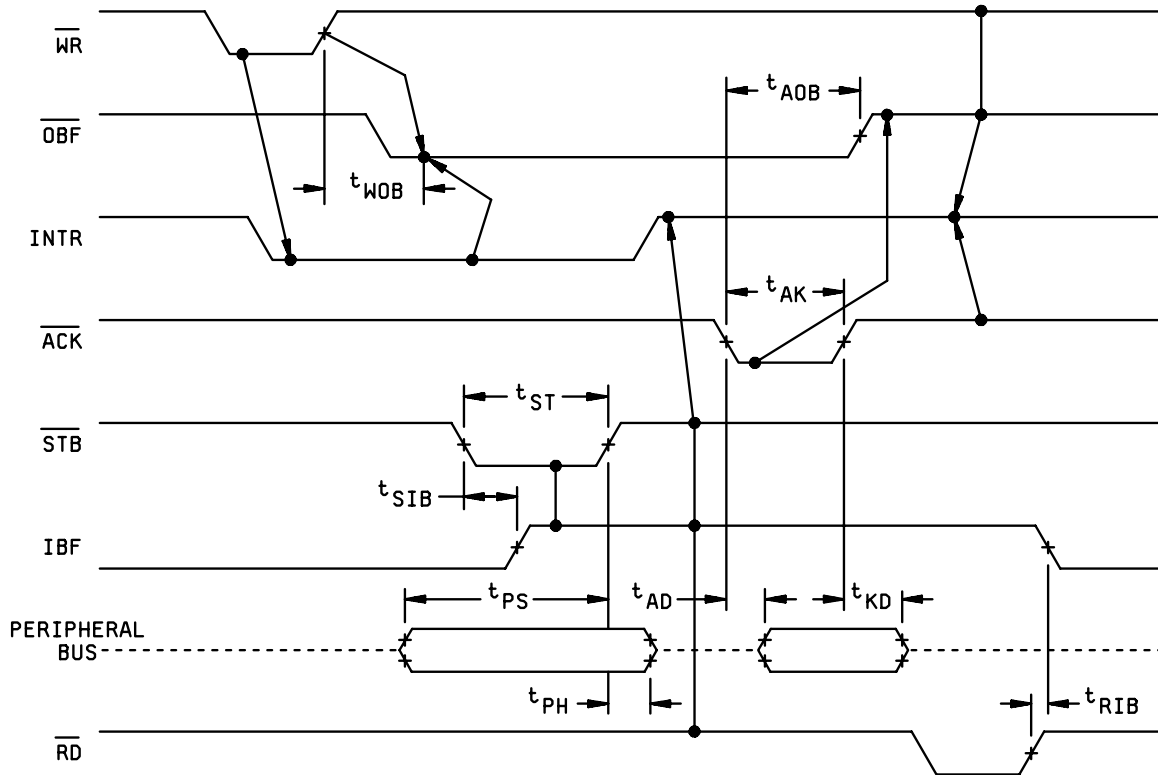
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Switching waveforms



MODE 2
(BIDIRECTIONAL)

NOTE: Any sequence where \overline{WR} occurs before \overline{ACK} and \overline{STB} occur before \overline{RD} is permissible (INTR = IBF • MASK • STB • RD + OBF • MASK • ACK • WR).

FIGURE 4. Timing waveforms - Continued.

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4. VERIFICATION

4.1 Sampling and inspection. Sampling and inspection procedures shall be in accordance with MIL-PRF-38535, appendix A.

4.2 Screening. Screening shall be in accordance with method 5004 of MIL-STD-883, and shall be conducted on all devices prior to quality conformance inspection. The following additional criteria shall apply:

- a. Burn-in test, method 1015 of MIL-STD-883.
 - (1) Test condition D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to the preparing or acquiring activity upon request. The test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in method 1015 of MIL-STD-883.
 - (2) $T_A = +125^{\circ}\text{C}$, minimum.
- b. Interim and final electrical test parameters shall be as specified in table II herein, except interim electrical parameter tests prior to burn-in are optional at the discretion of the manufacturer.

TABLE II. Electrical test requirements.

MIL-STD-883 test requirements	Subgroups (in accordance with MIL-STD-883, method 5005, table I)
Interim electrical parameters (method 5004)	---
Final electrical test parameters (method 5004)	<u>1/</u> 1, 2, 3, 7, 8, 9, 10, 11
Group A test requirements (method 5005)	1, 2, 3, 4, 7, 8, 9, 10, 11
Groups C and D end-point electrical parameters (method 5005)	1, 2, 3 or 2, 8A, 10

1/ PDA applies to subgroup 1.

4.3 Quality conformance inspection. Quality conformance inspection shall be in accordance with method 5005 of MIL-STD-883 including groups A, B, C, and D inspections. The following additional criteria shall apply.

4.3.1 Group A inspection.

- a. Tests shall be as specified in table II herein.
- b. Subgroups 5 and 6 in table I, method 5005 of MIL-STD-883 shall be omitted.
- c. Subgroup 4 (C_{IN} , and C_{IO} measurements) shall be measured only for the initial test and after process or design changes which may affect capacitance. A minimum sample size of 5 devices with zero failures shall be required.
- d. Subgroups 7 and 8 shall include verification of the truth table.

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4.3.2 Groups C and D inspections.

- a. End-point electrical parameters shall be as specified in table II herein.
- b. Steady-state life test conditions, method 1005 of MIL-STD-883.
 - (1) Test condition D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to the preparing or acquiring activity upon request. The test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in method 1005 of MIL-STD-883.
 - (2) $T_A = +125^{\circ}\text{C}$, minimum.
 - (3) Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.

5. PACKAGING

5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-PRF-38535, appendix A.

6. NOTES

6.1 Intended use. Microcircuits conforming to this drawing are intended for use for Government microcircuit applications (original equipment), design applications, and logistics purposes.

6.2 Replaceability. Microcircuits covered by this drawing will replace the same generic device covered by a contractor-prepared specification or drawing.

6.3 Configuration control of SMD's. All proposed changes to existing SMD's will be coordinated with the users of record for the individual documents. This coordination will be accomplished using DD Form 1692, Engineering Change Proposal.

6.4 Record of users. Military and industrial users shall inform Defense Supply Center Columbus (DSCC) when a system application requires configuration control and the applicable SMD. DSCC will maintain a record of users and this list will be used for coordination and distribution of changes to the drawings. Users of drawings covering microelectronics devices (FSC 5962) should contact DSCC-VA, telephone (614) 692-0544.

6.5 Comments. Comments on this drawing should be directed to DSCC-VA, Columbus, Ohio 43218-3990, or telephone (614) 692-0547.

6.6 Approved sources of supply. Approved sources of supply are listed in MIL-HDBK-103. The vendors listed in MIL-HDBK-103 have agreed to this drawing and a certificate of compliance (see 3.6 herein) has been submitted to and accepted by DSCC-VA.

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6.7 Pin descriptions. The following pin descriptions are applicable to this drawing.

Pin no. case X	Pin no. case Q	Name	I/O	Pin description
30-37	27-34	D7-D0	I/O	Data bus (bidirectional)
38	35	Reset	I	Reset input
6	6	\overline{CS}	I	Chip select
5	5	\overline{RD}	I	Read input
40	36	\overline{WR}	I	Write input
10,9	9, 8	A0, A1	I	Port address
41-44, 1-4	37-40, 1-4	PA7-PA0	I/O	Port A (bit)
26-19	25-18	PB7-PB0	I/O	Port B (bit)
11-15, 18-16	10-13, 17-14	PC7-PC0	I/O	Port C (bit)
27	26	V _{CC}		+5.0 V
7	7	GND		0.0 V

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DATE: 07-06-25

Approved sources of supply for SMD 5962-87570 are listed below for immediate acquisition information only and shall be added to MIL-HDBK-103 and QML-38535 during the next revision. MIL-HDBK-103 and QML-38535 will be revised to include the addition or deletion of sources. The vendors listed below have agreed to this drawing and a certificate of compliance has been submitted to and accepted by DSCC-VA. This information bulletin is superseded by the next dated revision of MIL-HDBK-103 and QML-38535. DSCC maintains an online database of all current sources of supply at <http://www.dsccl.dla.mil/Programs/Smcr/>.

Standard microcircuit drawing PIN <u>1/</u>	Vendor CAGE number	Vendor similar PIN <u>2/</u>
5962-8757001QA	3V146	MD8255A/BQA
5962-8757001XA	3V146	MR8255A/BXA
5962-8757002QA	<u>3/</u>	8255A-5

- 1/ The lead finish shown for each PIN representing a hermetic package is the most readily available from the manufacturer listed for that part. If the desired lead finish is not listed contact the vendor to determine its availability.
- 2/ Caution. Do not use this number for item acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.
- 3/ Not available from an approved source of supply.

Vendor CAGE
number

3V146

Vendor name
and address

Rochester Electronics Inc.
16 Malcolm Hoyt Drive
Newburyport, MA 01950

The information contained herein is disseminated for convenience only and the Government assumes no liability whatsoever for any inaccuracies in the information bulletin.