MILITARY HIGH SPEED 32K x 8 CMOS PROM/RPROM

KEY FEATURES

- **Ultra-Fast Access Time**
  — 45 ns
- **Low Power Consumption**
- **Fast Programming**
- **Immune to Latch-UP**
  — Up to 200 mA
- **ESD Protection Exceeds 2000V**
- **Available in 300 and 600 Mil DIP and CLLCC**

GENERAL DESCRIPTION

The WS57C71C is a High Performance 256K UV Erasable Electrically Re-Programmable Read Only Memory (RPROM). It is manufactured in an advanced CMOS technology and utilizes WSI's patented self-aligned split gate EPROM cell.

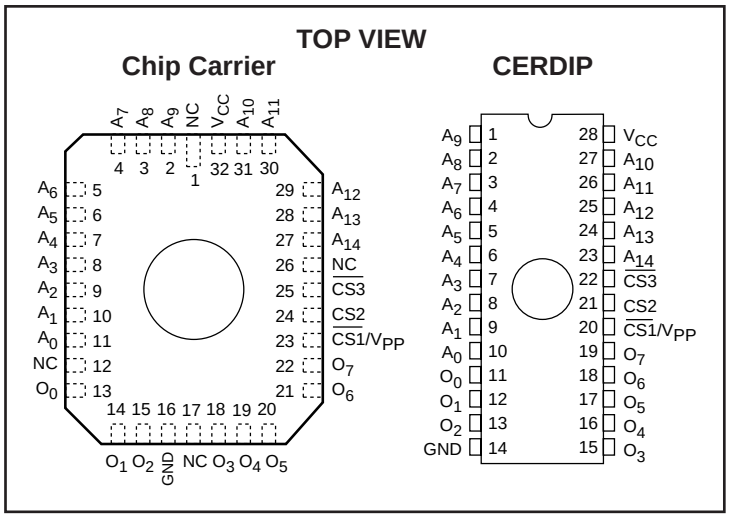
The industry standard PROM pin configuration of the WS57C71C provides an easy upgrade path from a 16K x 8 device.

This RPROM is capable of operating at speeds as fast as 35 ns address access time, which enables it to be used directly with today's fast microprocessors and DSP processors without introducing any wait states. All inputs and outputs are TTL compatible. The WS57C71C is a low power device even when operated at its fastest speed. The DIP version is packaged in a 300 mil wide DIP package saving board space for the user.

MODE SELECTION

PINS / MODE	$\overline{CS1}$/V_{PP}	CS2	$\overline{CS3}$	V_{CC}	OUTPUTS
Read	V_{IL}	V_{IH}	V_{IL}	V_{CC}	D_{OUT}
Output Disable	V_{IH}	X	X	V_{CC}	High Z
Output Disable	X	V_{IL}	X	V_{CC}	High Z
Output Disable	X	X	V_{IH}	V_{CC}	High Z
Program	V_{PP}	X	V_{IH}	V_{CC}	D_{IN}
Program Verify	V_{IL}	V_{IH}	V_{IL}	V_{CC}	D_{OUT}
Program Inhibit	V_{PP}	X	V_{IL}	V_{CC}	HIGH Z

PIN CONFIGURATION



PRODUCT SELECTION GUIDE

PARAMETER	WS57C71C-45	WS57C71C-55	WS57C71C-70
Address Access Time (Max)	45 ns	55 ns	70 ns
CS to Output Valid Time (Max)	20 ns	20 ns	30 ns

ORDERING INFORMATION

PART NUMBER	SPEED (ns)	PACKAGE TYPE	PACKAGE DRAWING	OPERATING TEMPERATURE RANGE	WSI MANUFACTURING PROCEDURE
WS57C71C-45TMB	45	28 Pin CERDIP, 0.3"	T2	Military	MIL-STD-883C
WS57C71C-55CMB	55	32 Pad CLLCC	C2	Military	MIL-STD-883C
WS57C71C-55DMB	55	28 Pin CERDIP, 0.6"	D2	Military	MIL-STD-883C
WS57C71C-55TMB	55	28 Pin CERDIP, 0.3"	T2	Military	MIL-STD-883C
WS57C71C-70TMB	70	28 Pin CERDIP, 0.3"	T2	Military	MIL-STD-883C

NOTE: 9. The actual part marking will not include the initials "WS."

PROGRAMMING/ALGORITHMS/ERASURE/PROGRAMMERS

REFER TO PAGE 5-1

The WS57C71C is programmed using Algorithm D shown on page 5-9.

For complete data sheet and electrical specifications see page 2-55.