MILITARY HIGH SPEED 2K x 8 CMOS PROM/RPROM

KEY FEATURES

- **Ultra-Fast Access Time**
  - t_{ACC} = 35 ns
  - t_{CS} = 20 ns
- **Low Power Consumption**
- **Fast Programming**
- **Available in 300 and 600 Mil DIP**

- **Pin Compatible with Am27S191/291 and N82S191 Bipolar PROMs**
- **Immune to Latch-UP**
  - Up to 200 mA
- **ESD Protection Exceeds 2000V**
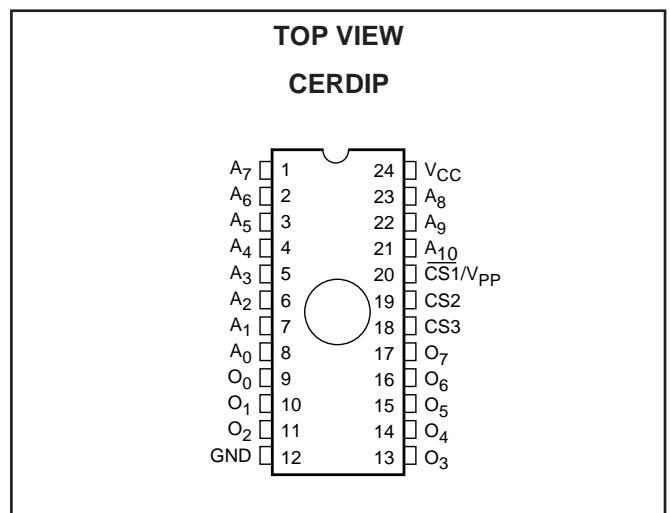
GENERAL DESCRIPTION

The WS57C191C/291C is an extremely High Performance 16K UV Erasable Electrically Re-Programmable Read Only Memory (RPROM). It is manufactured in an advanced CMOS technology which enables it to operate at Bipolar PROM speeds while consuming only 25% of the power required by its Bipolar counterparts. The WS57C191C/291C is also configured in the standard Bipolar PROM pinout which provides an easy upgrade path for systems which are currently using Bipolar PROMs.

The WS57C191C is packaged in a conventional 600 mil DIP package. The WS57C291C is packaged in a space saving 300 mil DIP package configuration.

MODE SELECTION

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

PIN CONFIGURATION

TOP VIEW

CERDIP

Left	Pin		Pin	Right
A_7	1		24	V_{CC}
A_6	2		23	A_8
A_5	3		22	A_9
A_4	4		21	A_{10}
A_3	5		20	$\overline{CS1}/V_{PP}$
A_2	6		19	CS2
A_1	7		18	CS3
A_0	8		17	O_7
O_0	9		16	O_6
O_1	10		15	O_5
O_2	11		14	O_4
GND	12		13	O_3

PRODUCT SELECTION GUIDE

PARAMETER	WS57C191C/291C-35	WS57C191C/291C-45	WS57C191C/291C-55
Address Access Time (Max)	35 ns	45 ns	55 ns
CS to Output Valid Time (Max)	20 ns	20 ns	20 ns

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ORDERING INFORMATION

PART NUMBER	SPEED (ns)	PACKAGE TYPE	PACKAGE DRAWING	OPERATING TEMPERATURE RANGE	WSI MANUFACTURING PROCEDURE
WS57C191C					
WS57C191C-35DMB	35	24 Pin CERDIP, 0.6"	D1	Military	MIL-STD-883C
WS57C191C-45DMB	45	24 Pin CERDIP, 0.6"	D1	Military	MIL-STD-883C
WS57C191C-55DMB	55	24 Pin CERDIP, 0.6"	D1	Military	MIL-STD-883C
WS57C291C					
WS57C291C-35TMB	35	24 Pin CERDIP, 0.3"	T1	Military	MIL-STD-883C
WS57C291C-45TMB	45	24 Pin CERDIP, 0.3"	T1	Military	MIL-STD-883C
WS57C291C-55TMB	55	24 Pin CERDIP, 0.3"	T1	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 WS57C191C and WS57C291C are programmed using Algorithm D shown on page 5-9.

For complete data sheet and electrical specifications see page 2-7.