



MILITARY HIGH SPEED 2K x 8 CMOS PROM/RPROM

KEY FEATURES

- **Ultra-Fast Access Time**
 - $t_{ACC} = 35 \text{ ns}$
 - $t_{CS} = 20 \text{ ns}$
- **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

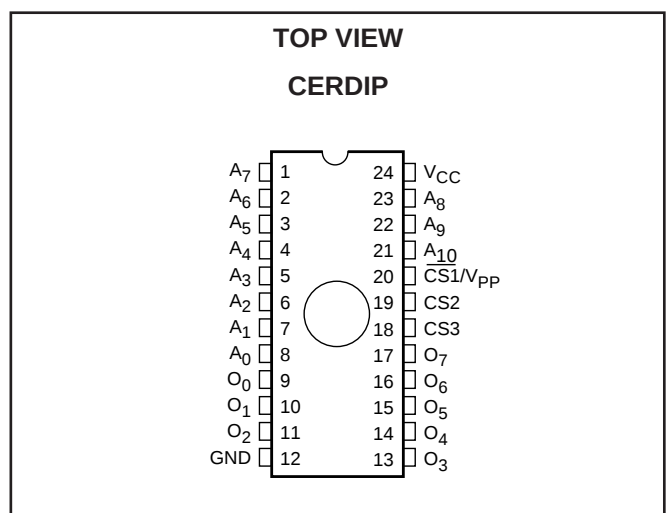
The WS57C191C/291C is an extremely High Performance 16K UV Erasable Electrically Re-Programmable Read Only Memory (RPROM). It is manufactured in an advanced CMOS technology which enables it to operate at Bipolar PROM speeds while consuming only 25% of the power required by its Bipolar counterparts. The 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



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

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.

