# 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

**MODE SELECTION** 

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

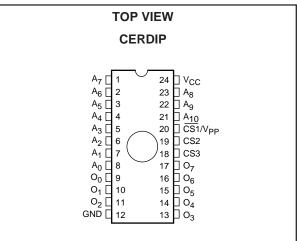
#### **GENERAL DESCRIPTION**

The WS57C191C/291C is an extremely High Performance 16K UV Erasable Electrically <u>Re-Programmable Read</u> 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.

PINS MODE	CS1/V <sub>PP</sub>	CS2	CS3	v <sub>cc</sub>	OUTPUTS
Read	$V_{IL}$	$V_{H}$	$V_{IH}$	V <sub>CC</sub>	D <sub>OUT</sub>
Output Disable	$v_{\rm IH}$	х	х	V <sub>CC</sub>	High Z
Output Disable	Х	V <sub>IL</sub>	х	V <sub>CC</sub>	High Z
Program	V <sub>PP</sub>	Х	Х	V <sub>CC</sub>	D <sub>IN</sub>
Program Verify	V <sub>IL</sub>	$V_{IH}$	VIH	V <sub>CC</sub>	D <sub>OUT</sub>
Output Disable	х	х	VIL	V <sub>CC</sub>	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	



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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.

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