# MILITARY HIGH SPEED 16K x 8 CMOS PROM/RPROM

**KEY FEATURES** 

- Ultra-Fast Access Time — 45 ns
- Low Power Consumption
- Fast Programming

**MODE SELECTION** 

- Pin Compatible with Am27S51 and N82HS1281
- Immune to Latch-Up Up to 200 mA
- ESD Protection Exceeds 2000 V

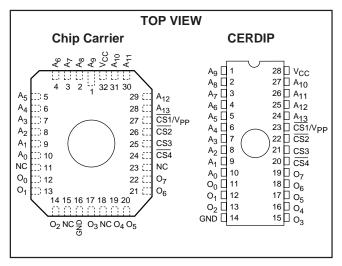
#### **GENERAL DESCRIPTION**

The WS57C51C is a High Performance 128K 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. A further advantage of the WS57C51C over Bipolar PROM devices is the fact that it utilizes a proven EPROM technology. This enables the entire memory array to be tested for switching characteristics and functionality after asscribly. Unlike devices which cannot be erased, every WS5751C in a windowed package is 100% tested viti worst case test patterns both before and after assembly.

The WS57C51C provides a low power alternative to those design which are committed to a Bipolar PROM footprint. It is a direct drop-in replacement for a Bipolar PROM of the same architecture (16K x 8). No software, hardware or layout changes need be performed.

	PINS	CS1/ V <sub>PP</sub>	CS2	CS3	CS4	V <sub>C</sub> r,	OUTPUTS
	Read	VIL	$v_{IL}$	VIH	٧٠L	Vuc	DOUT
	Output Disable	$v_{\rm IH}$	х	X	х	Vcc	High Z
	Output Disable	x	Vтн	×	х	VCC	High Z
	Output Disable	X	х	VIL	х	VCC	High Z
	Output Dinable	х	Х	х	VIH	V <sub>CC</sub>	High Z
4	Program	V <sub>PP</sub>	$v_{IH}$	Х	Х	VCC	D <sub>IN</sub>
	Program Verify	VIL	VIL	VIH	VIL	Vcc	DOUT

## PIN CONFIGURATION



## **PRODUCT SELECTION GUIDE**

PARAMETER	WS57C51C-45	WS57C51C-55	WS57C51C-70	
Address Access Time (Max)	45 ns	55 ns	70 ns	
CS to Output Valid Time (Max)	20 ns	25 ns	30 ns	



#### **ORDERING INFORMATION**

PART NUMBER SPEED		PACKAGE TYPE	PACKAGE DRAWING	OPERATING TEMPERATURE RANGE	WSI MANUFACTURING PROCEDURE
WS57C51C-45CMB	45	32 Pad CLLCC	C2	Military	MIL-STD-883C
WS57C51C-45DMB	45	28 Pin CERDIP, 0.6"	D2	Military	MIL-STD-883C
WS57C51C-45TMB	45	28 Pin CERDIP, 0.3"	T2	Military	MIL-STD-883C
WS57C51C-55CMB	55	32 Pad CLLCC	C2	Military	MIL-STD-883C
WS57C51C-55DMB	55	28 Pin CERDIP, 0.6"	D2	Military	MIL-STD-883C
WS57C51C-55TMB	55	28 Pin CERDIP, 0.3"	T2	Military	MIL-STD-883C

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

