M48T08-150PC1

Real Time Clock Parallel 8Kbyte Clock/Calendar/NV Timekeeping RAM/Battery Backup 28-Pin PCDIP Tube

Manufacturer:	STMicroelectronics, Inc
Package/Case:	DIP
Product Type:	Clock & Timer ICs
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active

Images are for reference only

Inquiry

General Description

The M48T08/18/08Y TIMEKEEPERRAM is an 8 K x 8 non-volatile static RAM and real-time clock which is pin and function compatible with the DS1643. The monolithic chip is available in two special packages to provide a highly integrated battery-backed memory and real-time clock solution.
The M48T08/18/08Y is a non-volatile pin and function equivalent to any JEDEC standard 8 K x 8 SRAM. It also easily fits into many ROM, EPROM, and EEPROM sockets, providing the non-volatility of PROMs without any requirement for special WRITE timing or limitations on the number of WRITEs that can be performed. The 28-pin, 600 mil DIP CAPHAT houses the M48T08/18/08Y silicon with a quartz crystal and a long-life lithium button cell in a single package. The 28-pin, 330 mil SOIC provides sockets with gold-plated contacts at both ends for direct connection to a separate SNAPHAT housing containing the battery and crystal. The unique design allows the SNAPHATbattery package to be mounted on top of the SOIC package after the completion of the surface mount process. Insertion of the SNAPHAThousing after reflow prevents potential battery and crystal damage due to the high temperatures required for device surface-mounting. The SNAPHAThousing is keyed to prevent reverse insertion. The SOIC and battery/crystal packages are shipped separately in plastic anti-static tubes or in tape & reel form. For the 28-lead SOIC, the battery/crystal package (e.g., SNAPHAT) part number is “M4T28-BR12SH” or “M4T32-BR12SH”.

Key Features

IntegratedultralowpowerSRAM,real-timeclock,power-failcontrolcircuit,andbattery

BYTEWIDERAM-likeclockaccess

BCDcodedyear,month,day,date,hours,minutes,andseconds

Typicalclockaccuracyof±1minuteamonth,at25°C

AutomaticpowerfailchipdeselectandWRITEprotection

WRITEprotectVPFD=power-faildeselectvoltage):

M48T08:VCC=4.75to5.5V;4.5V≤VPFD≤4.75V

M48T18/T08Y:VCC=4.5to5.5V;4.2V≤VPFD≤4.5V

Recommended For You

M41T62LC6F

STMicroelectronics, Inc

CLCC8

M48T35Y-70PC1

STMicroelectronics, Inc

DIP

M48T18-150PC1

STMicroelectronics, Inc

DIP

M48T58Y-70PC1

STMicroelectronics, Inc

DIP

M41ST85WMH6F

STMicroelectronics, Inc

SOP28

M48T08-100PC1

STMicroelectronics, Inc

DIP

M41ST85WMX6TR

STMicroelectronics, Inc

SOP28

M48T58-70PC1

STMicroelectronics, Inc

DIP

M41ST87WMX6TR

STMicroelectronics, Inc

SOP28

M48T12-150PC1

STMicroelectronics, Inc

DIP

M41T93SMY6F

STMicroelectronics, Inc

SOP18

M41T66Q6F

STMicroelectronics, Inc

QFN16

M41T94MQ6F

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SOP16

M41T62Q6F

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QFN16

M41T94MH6F

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