ADVANCED COMPONENTS PACKAGING

256 Megabit Synchronous DRAM

DPSD16MX16TKY5

DESCRIPTION:

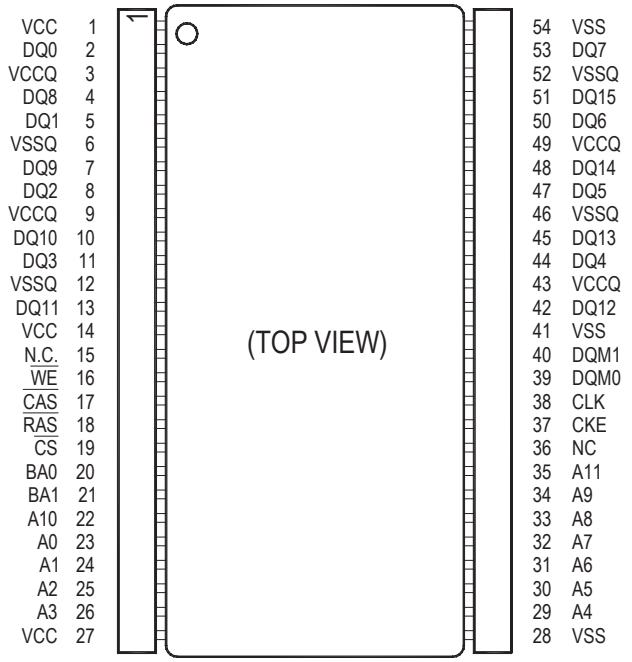
The Memory Stack™ series is a family of interchangeable memory devices. The 256 Megabit SDRAM assembly utilizes the space saving LP-Stack™ technology to increase memory density. This stack is constructed with two 128Mb (16M x 8) SDRAMs.

This 256Mb LP-Stack™ has been designed to fit in the same footprint as the 128Mb (16M x 8) SDRAM TSOPII monolithic. This stack allows for system upgrade without electrical or mechanical redesign, providing an alternative low cost memory solution.

FEATURES:

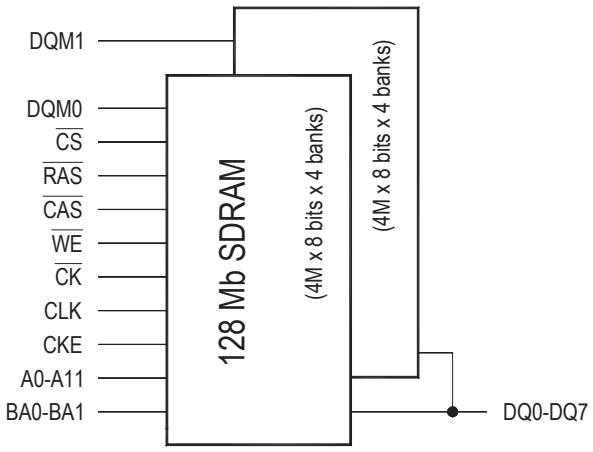
- Electrical characteristics meet semiconductor manufacturers' datasheets
- Memory organization:
  (2) 128Mb memory devices. Each device arranged as 16M x 8 bits (4M x 8 bits x 4 banks)
- Memory stack organization:
  16M x 16 bits (4M x 16 bits x 4 banks)
- JEDEC approved TSOPII footprint / non JEDEC pin assignment
  (with 1 CS, 1 CKE, 2 DQMs and DQ0-DQ15)
- Optimized for RDIMMs
- IPC-A-610, class 2, manufacturing standards
- Lead free manufacturing process
- Package: 54-Pin TSOPII stack

PIN-OUT DIAGRAM

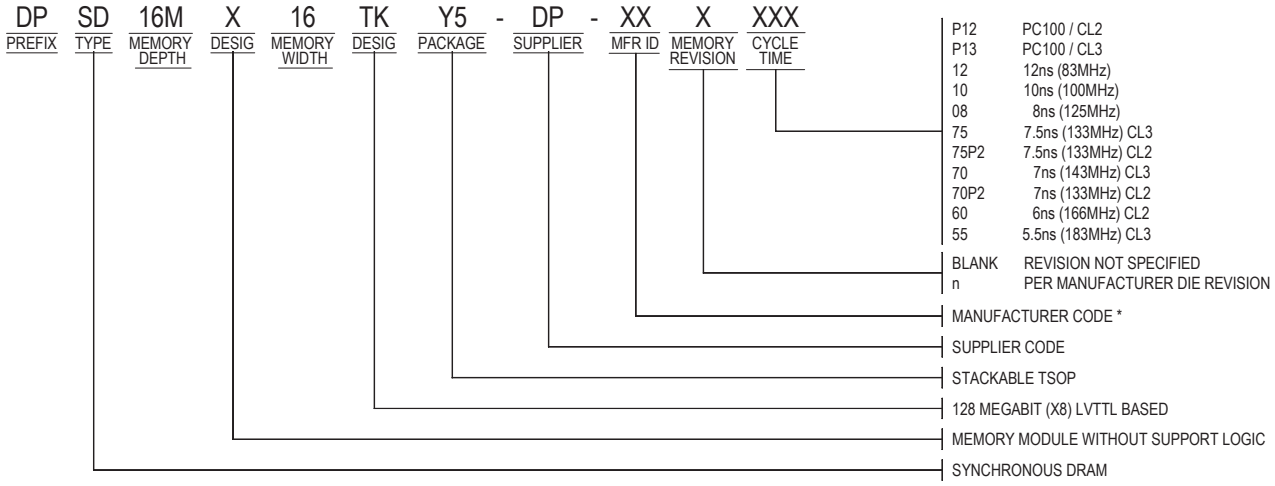


PIN NAMES	
A0-A11	Row Address: A0-A11 Column Address: A0-A9
BA0, BA1	Bank Select Address
DQ0-DQ15	Data In/Data Out
$\overline{CAS}$	Column Address Strobe
$\overline{RAS}$	Row Address Strobe
$\overline{WE}$	Data Write Enable
DQM0, DQM1	Data Input/Output Masks
CKE	Clock Enable
CLK	System Clock
$\overline{CS}$	Chip Select
V_{CC}/V_{SS}	Power Supply/Ground
V_{CCQ}/V_{SSQ}	Data Output Power/Ground
NC	No Connect

FUNCTIONAL BLOCK DIAGRAM



ORDERING INFORMATION

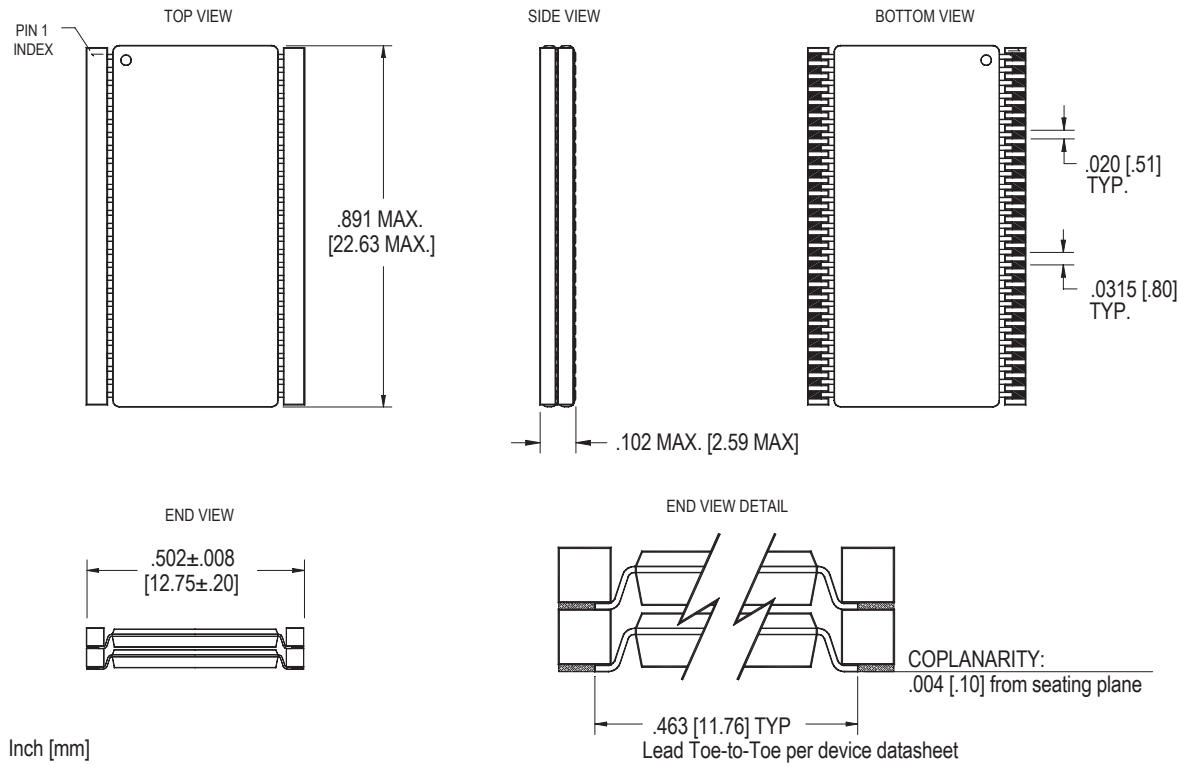


* Contact your sales representative for supplier and manufacturer codes.

NOTE:

1. AC Parameters of base memory are unchanged from device manufacturers' specifications.
2. DC Parameters may be affected by stacking. Please refer to application note 53A004-00 for further information.
3. For assembly and inspection procedures, refer to application note 53A001-00.
4. Maximum reflow temperature recommendation is 215°C.

MECHANICAL DIAGRAM



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