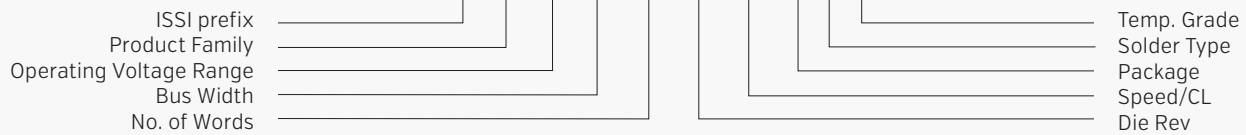




**THE DATASHEET OF
IS42S16400F-5TL**

IS 46 DR 16 320 D-25D B L A2



• Product Family

- 41 = Asynchronous
- 42 = SDR Commercial/Industrial grade
- 43 = DDR/DDR2/DDR3 Commercial/Industrial grade
- 45 = SDR Automotive grade
- 46 = DDR/DDR2/DDR3 Automotive grade

• Operating Voltage Range

- Asynchronous: Fast Page and EDO
- C = 5V
- LV = 3.3V

Synchronous

- S = 3.3V SDR
- SM/RM/VM = 3.3V/2.5V/1.8V mobile SDR
- VS = 1.8V SDR
- R = 2.5V DDR or 2.5V SDR
- LR = 1.8V mobile DDR (LPDDR)
- DR = DDR2
- LD = LPDDR2
- TR = DDR3

• Bus Width

- 8 = x8
- 16 = x16
- 32 = x32

• No. of Words

- 100 = 1M
- 200 = 2M
- 400 = 4M
- 800 = 8M
- 160 = 16M
- 320 = 32M
- 640 = 64M
- 128 = 128M
- 256 = 256M
- 512 = 512M

• Die Rev.

- A - Z

• Speed

- 7 = up to 143Mhz
- 6 = up to 166Mhz
- 75 = up to 133Mhz
- 5 = up to 200Mhz
- 37 = up to 266Mhz
- 3 = up to 333Mhz
- 25 = up to 400Mhz
- 187 = up to 533Mhz [DDR3 -1066]
- 15 = up to 667Mhz [DDR3 -1333]
- 125 = up to 800Mhz [DDR3-1600]
- 107 = up to 933 Mhz [DDR3-1866]
- 093 = up to 1066 Mhz [DDR3-2133]

• CL (CAS Latency)

- B = 3, C = 4, D = 5, E = 6,
- F = 7, G = 8, H = 9, J = 10,
- K = 11, L = 12, M = 13, N = 14
- [Not all speeds and CL's available for all products.]

• Solder Type

- [Blank] = Sn/Pb
- L = 100% matte Sn for non-BGA
- L = SnAgCu for BGA

• Temp. Grade

- Blank = Commercial Grade [0C to +70°C]
- I = Industrial Grade [-40C to +85°C]
- A1 = Automotive Grade [-40C to +85°C]
- A2 = Automotive Grade [-40C to +105°C]
- A25 = Automotive Grade [-40C to +115°C]

Notes :

1. Ambient temperature limits shown for most products.
2. For DDR2 and DDR3, refer to the case temperature specifications.

• Package

- B = BGA
- CT = Copper TSOP
- T = TSOP
- BP = PoP BGA
- K = SOJ

Looking for pricing, stock, or lifecycle information?

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- ✓ Alternative Solution
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