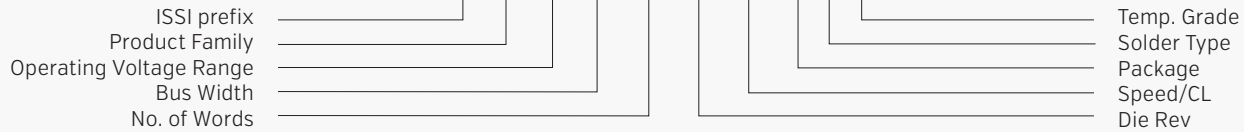


**IS 46 DR 16 320 D-25D B L A2****• Product Family**

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