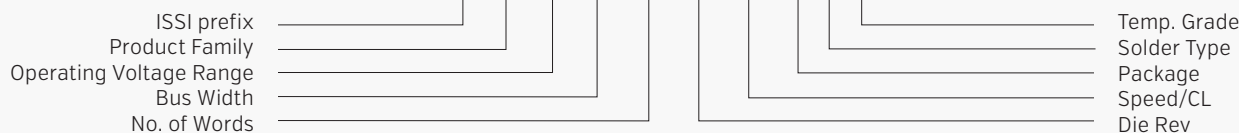




IS 46 DR 16 320 D-25D B L A2



• 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