

DETAIL Y

	TITLE	ISSUE	DATE		SHEET
JEDEC	SMALL OUTLINE DUAL INLINE'				
SOLID STATE PRODUCT	MEMORY MODULE (SODIMM)		JAN 01	MO-190	2 OF 8
OUTLINE	FAMILY, 0.8 LEAD CENTERS				

DRAM VARIATIONS

		AA			AB			AC		N O T E
SYMBOL	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	Ė
А	25.25	25.40	25.55	25.25	25.40	25.55	25.25	25.40	25.55	
A1		6.00 BSC			6.00 BSC			6.00 BSC		
A2	3.20			3.20			3.20			
A3	4.00			4.00			4.00			5,8
A4		20.00 BSC			20.00 BSC			20.00 BSC		1
D	67.45	67.60	67.75	67.45	67.60	67.75	67.45	67.60	67.75	
D1		24.50 BSC			24.50 BSC			24.50 BSC		
D2		63.60 BSC			63.60 BSC			63.60 BSC		1
D3		1.75 BSC			2.50 BSC			3.25 BSC		4
D4		1.35 BSC			2.10 BSC			2.85 BSC		1
D5		4.05 BSC			4.80 BSC			5.55 BSC		
E			3.80			3.80			3.80	5
e1		23.20 BSC			23.20 BSC			23.20 BSC		1
e2		32.80 BSC			32.80 BSC			32.80 BSC		1
N		144			144			144		
ISSUE		В			В			В		1
REF		11.14-031			11.14-031			11.14-031		1
NOTES		1,2,3			1,2,3			1,2,3		

		ВА			BB			BC		N O T E
SYMBOL	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	Ė
Α	31.60	31.75	31.90	31.60	31.75	31.90	31.60	31.75	31.90	
A1		6.00 BSC			6.00 BSC			6.00 BSC		
A2	3.20			3.20			3.20			
A3	4.00			4.00			4.00			5,8
A4		20.00 BSC			20.00 BSC			20.00 BSC		
D	67.45	67.60	67.75	67.45	67.60	67.75	67.45	67.60	67.75	
D1		24.50 BSC			24.50 BSC			24.50 BSC		
D2		63.60 BSC			63.60 BSC		63.60 BSC			
D3		1.75 BSC			2.50 BSC			3.25 BSC		4
D4		1.35 BSC			2.10 BSC			2.85 BSC		
D5		4.05 BSC			4.80 BSC			5.55 BSC		
Е			3.80			3.80			3.80	5
e1		23.20 BSC			23.20 BSC			23.20 BSC		
e2		32.80 BSC			32.80 BSC			32.80 BSC		
N		144			144			144		
ISSUE		В			В			В		
REF		11.14-031			11.14-031		11.14-031			
NOTES		1,2,3			1,2,3			1,2,3		

JEDEC	TITLE SMALL OUTLINE DUAL INLINE	ISSUE	DATE		SHEET
SOLID STATE PRODUCT OUTLINE	MEMORY MODULE (SODIMM) FAMILY, 0.8 LEAD CENTERS	D	JAN 01	MO-190	3 OF 8

DRAM VARIATIONS

		CA			СВ			СС		1 O N
SYMBOL	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	Ė
А	37.95	38.10	38.25	37.95	38.10	38.25	37.95	38.10	38.25	
A1		6.00 BSC			6.00 BSC			6.00 BSC]
A2	3.20			3.20			3.20			
A3	4.00			4.00			4.00			5,8
A4		20.00 BSC			20.00 BSC			20.00 BSC]
D	67.45	67.60	67.75	67.45	67.60	67.75	67.45	67.60	67.75]
D1		24.50 BSC			24.50 BSC			24.50 BSC		
D2		63.60 BSC		63.60 BSC			63.60 BSC]
D3		1.75 BSC			2.50 BSC			3.25 BSC		4
D4		1.35 BSC			2.10 BSC			2.85 BSC		
D5		4.05 BSC			4.80 BSC			5.55 BSC		1
E			3.80			3.80			3.80	5
e1		23.20 BSC			23.20 BSC			23.20 BSC		
e2		32.80 BSC			32.80 BSC			32.80 BSC		
N		144			144			144		
ISSUE		В			В			В]
REF		11.14-031			11.14-031		11.14-031			
NOTES		1,2,3			1,2,3			1,2,3		

		DA			DB			DC		NOT E
SYMBOL	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	È
Α	50.65	50.80	50.95	50.65	50.80	50.95	50.65	50.80	50.95	
A1		6.00 BSC			6.00 BSC			6.00 BSC		
A2	3.20			3.20			3.20			
A3	4.00			4.00			4.00			5,8
A4		20.00 BSC			20.00 BSC			20.00 BSC		
D	67.45	67.60	67.75	67.45	67.60	67.75	67.45	67.60	67.75	
D1		24.50 BSC			24.50 BSC			24.50 BSC		
D2		63.60 BSC			63.60 BSC			63.60 BSC		
D3		1.75 BSC			2.50 BSC			3.25 BSC		4
D4		1.35 BSC			2.10 BSC			2.85 BSC		
D5		4.05 BSC			4.80 BSC			5.55 BSC		
Е			3.80			3.80			3.80	5
e1		23.20 BSC			23.20 BSC			23.20 BSC		
e2		32.80 BSC			32.80 BSC			32.80 BSC		
N		144			144			144		
ISSUE		В			В			В		
REF		11.14-031			11.14-031		11.14-031			
NOTES		1,2,3			1,2,3			1,2,3		

JEDEC	TITLE SMALL OUTLINE DUAL INLINE	ISSUE	DATE		SHEET
SOLID STATE PRODUCT OUTLINE	MEMORY MODULE (SODIMM) FAMILY, 0.8 LEAD CENTERS	D	JAN 01	MO-190	4 OF 8

SGRAM VARIATIONS

		EA			EB			EC		N O T E	
SYMB0L	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	Ė	
А	25.25	25.40	25.55	25.25	25.40	25.55	25.25	25.40	25.55		
A1		6.00 BSC	•		6.00 BSC			6.00 BSC			
A2	3.20			3.20			3.20				
А3	4.00			4.00			4.00			5,8	
A4	20.00 BSC				20.00 BSC			20.00 BSC			
D	67.45	67.60	67.75	67.45	67.60	67.75	67.45	67.60	67.75		
D1		20.50 BSC		20.50 BSC			20.50 BSC				
D2		63.60 BSC			63.60 BSC		63.60 BSC				
D3		1.75 BSC			2.50 BSC			3.25 BSC		4	
D4		1.35 BSC		2.10 BSC							
D5		8.05 BSC			8.80 BSC			9.55 BSC			
E			7.50			7.50			7.50	5	
e1		19.20 BSC			19.20 BSC			19.20 BSC			
e2		36.80 BSC			36.80 BSC			36.80 BSC			
N	144				144						
ISSUE		В		В							
REF		11.14-031			11.14-031			11.14-031			
NOTES		1,2,3			1,2,3						

		FA			FB			FC		N O T E
SYMBOL	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	E
А	31.60	31.75	31.90	31.60	31.75	31.90	31.60	31.75	31.90	
A1		6.00 BSC			6.00 BSC			6.00 BSC		
A2	3.20			3.20			3.20			
A3	4.00			4.00			4.00			5,8
A4		20.00 BSC			20.00 BSC			20.00 BSC		
D	67.45	67.60	67.75	67.45	67.60	67.75	67.45	67.60	67.75	
D1		20.50 BSC		20.50 BSC			20.50 BSC			
D2		63.60 BSC			63.60 BSC		63.60 BSC			
D3		1.75 BSC			2.50 BSC			3.25 BSC		4
D4		1.35 BSC			2.10 BSC			2.85 BSC		
D5		8.05 BSC			8.80 BSC			9.55 BSC		
E			7.50			7.50			7.50	5
e1		19.20 BSC			19.20 BSC			19.20 BSC		
e2		36.80 BSC			36.80 BSC			36.80 BSC		
N		144		144				144		
ISSUE		В		В				В		
REF		11.14-031		11.14-031						
NOTES		1,2,3			1,2,3			1,2,3		

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SOLID STATE PRODUCT OUTLINE	MEMORY MODULE (SODIMM) FAMILY, 0.8 LEAD CENTERS	D	JAN 01	MO-190	5 OF 8

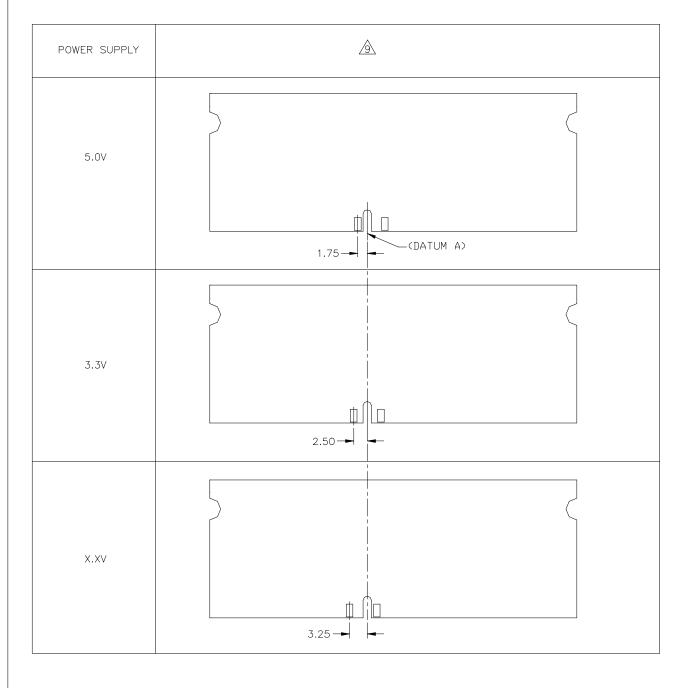
SGRAM VARIATIONS

		GA			GB			GC		N O T E
SYMBOL	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX] Ė
А	37.95	38.10	38.25	37.95	38.10	38.25	37.95	38.10	38.25	
A1		6.00 BSC			6.00 BSC		•	6.00 BSC		
A2	3.20			3.20			3.20			
A3	4.00			4.00			4.00			5,8
A4	20.00 BSC				20.00 BSC			20.00 BSC		
D	67.45	67.60	67.75	67.45	67.60	67.75	67.45	67.60	67.75	
D1		20.50 BSC		20.50 BSC			20.50 BSC			
D2		63.60 BSC			63.60 BSC		63.60 BSC			1
D3		1.75 BSC		2.50 BSC 3.25 BSC				4		
D4		1.35 BSC		2.10 BSC						
D5		8.05 BSC			8.80 BSC			9.55 BSC		
E			7.50			7.50			7.50	5
e1		19.20 BSC			19.20 BSC			19.20 BSC		
e2		36.80 BSC			36.80 BSC			36.80 BSC		
N		144			144			144		
ISSUE		В			В			1		
REF		11.14-031		11.14-031				1		
NOTES		1,2,3		1,2,3			1,2,3			

		НА			НВ				N O T E	
SYMBOL	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	Ė
А	50.65	50.80	50.95	50.65	50.80	50.95	50.65	50.80	50.95	
A1		6.00 BSC			6.00 BSC			6.00 BSC		
A2	3.20			3.20			3.20			
A3	4.00			4.00			4.00			5,8
A4	20.00 BSC				20.00 BSC					
D	67.45	67.60	67.75	67.45	67.60	67.75	67.45	67.60	67.75	
D1		20.50 BSC			20.50 BSC			20.50 BSC		
D2		63.60 BSC			63.60 BSC 63.60 BSC					
D3		1.75 BSC			2.50 BSC			3.25 BSC		4
D4		1.35 BSC		2.10 BSC						
D5		8.05 BSC			8.80 BSC			9.55 BSC		
E			7.50			7.50			7.50	5
e1		19.20 BSC			19.20 BSC			19.20 BSC		
e2		36.80 BSC			36.80 BSC			36.80 BSC		
N		144			144			144		1
ISSUE		В		В		В]	
REF		11.14-031		11.14-031				1		
NOTES		1,2,3			1,2,3			1,2,3		

JEDEC	TITLE SMALL OUTLINE DUAL INLINE	ISSUE	DATE		SHEET
SOLID STATE PRODUCT OUTLINE	MEMORY MODULE (SODIMM) FAMILY, 0.8 LEAD CENTERS	D	JAN 01	MO-190	6 OF 8

MECHANICAL KEYING (FRONT VIEWS)



JEDEC	TITLE SMALL OUTLINE DUAL INLINE	ISSUE	DATE		SHEET
SOLID STATE PRODUCT OUTLINE	MEMORY MODULE (SODIMM) FAMILY, 0.8 LEAD CENTERS	D	JAN 01	MO-190	7 OF 8

NOTES:

- 1. DIMENSIONING AND TOLERANCING CONFORM TO ASME Y14.5M-1994.
- 2. TOLERANCES ON ALL DIMENSIONS ±0.15 UNLESS OTHERWISE SPECIFIED.
- 3. ALL DIMENSIONS ARE mm.



APPLICATION NOTE:

VARYING THE POSITION OF THE NOTCH IDENTIFIES THE OPERATIONAL VOLTAGE: 5.0 VOLT (xA). 3.3 VOLT (xB). X.X VOLT (xC).



DIMENSIONS APPLICABLE WHEN COMPONENTS MOUNTED ON BOTH SIDES.



CARD THICKNESS APPLIES ACROSS TABS AND INCLUDES PLATING AND/OR METALIZATION.



APPLICATION NOTE:

RECOMMENDED PLATING FOR CONTACT PADS ARE:

- 1) PREFERABLE PLATING: ELECTROLYTIC GOLD PLATING 0.76 MICROMETERS MINIMUM OVER ELECTROLYTIC NI 2.00 MICROMETERS MINIMUM.
- 2) ALTERNATIVE PLATING: GOLD PLATING 0.05-0.75 MICROMETERS OVER NI 2.00 MICROMETERS MINIMUM MUST USE AN ELECTRONIC CONTACT GRADE CORROSIVE BARRIER LUBRICANT.



APPLICATION NOTE:

BORDER OF COMPONENT AREA.



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10 the addition of this bevel is a fabrication option and is not required. THE BEVEL AIDS THE INSERTION OF THE MODULE INTO THE CONNECTOR. THE BEVEL IS NOT TO HIT THE GOLD CONTACTS.

JEDEC	TITLE SMALL OUTLINE DUAL INLINE	ISSUE	DATE		SHEET
SOLID STATE PRODUCT OUTLINE	MEMORY MODULE (SODIMM) FAMILY, 0.8 LEAD CENTERS	D	JAN 01	MO-190	8 OF 8