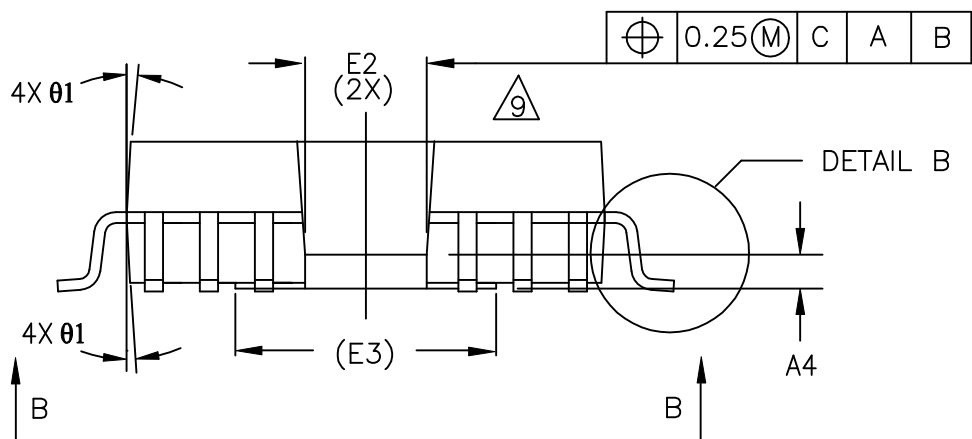
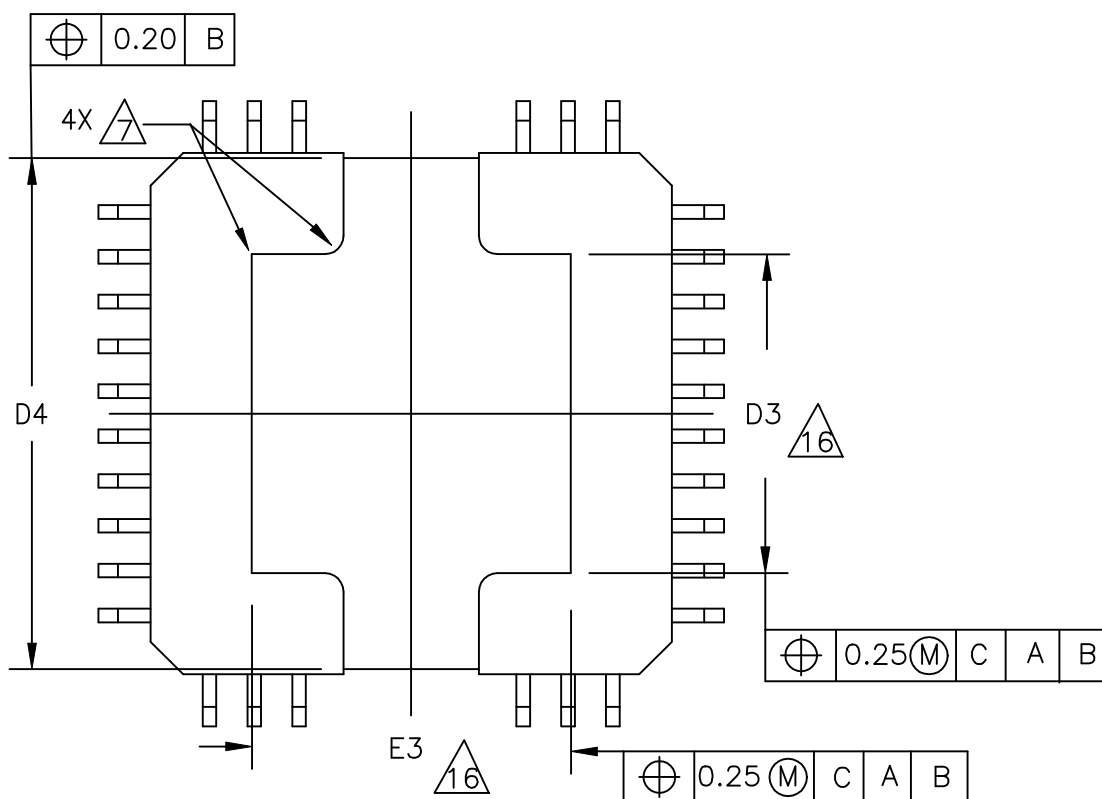


1 OF 10

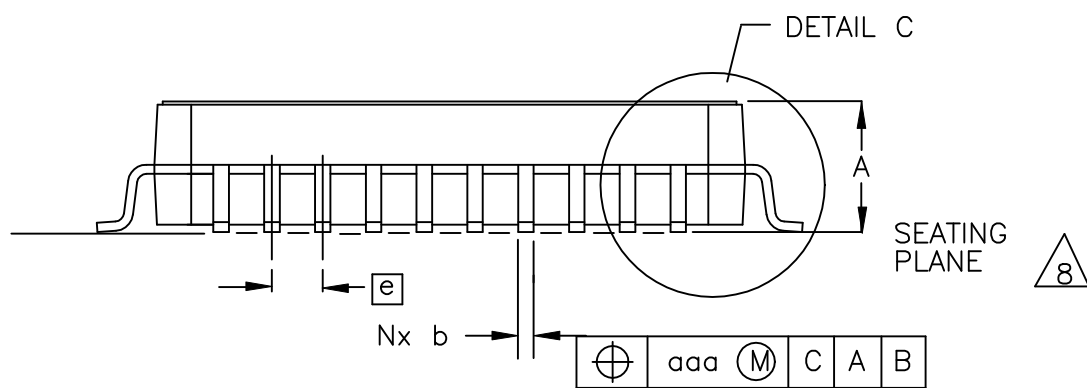
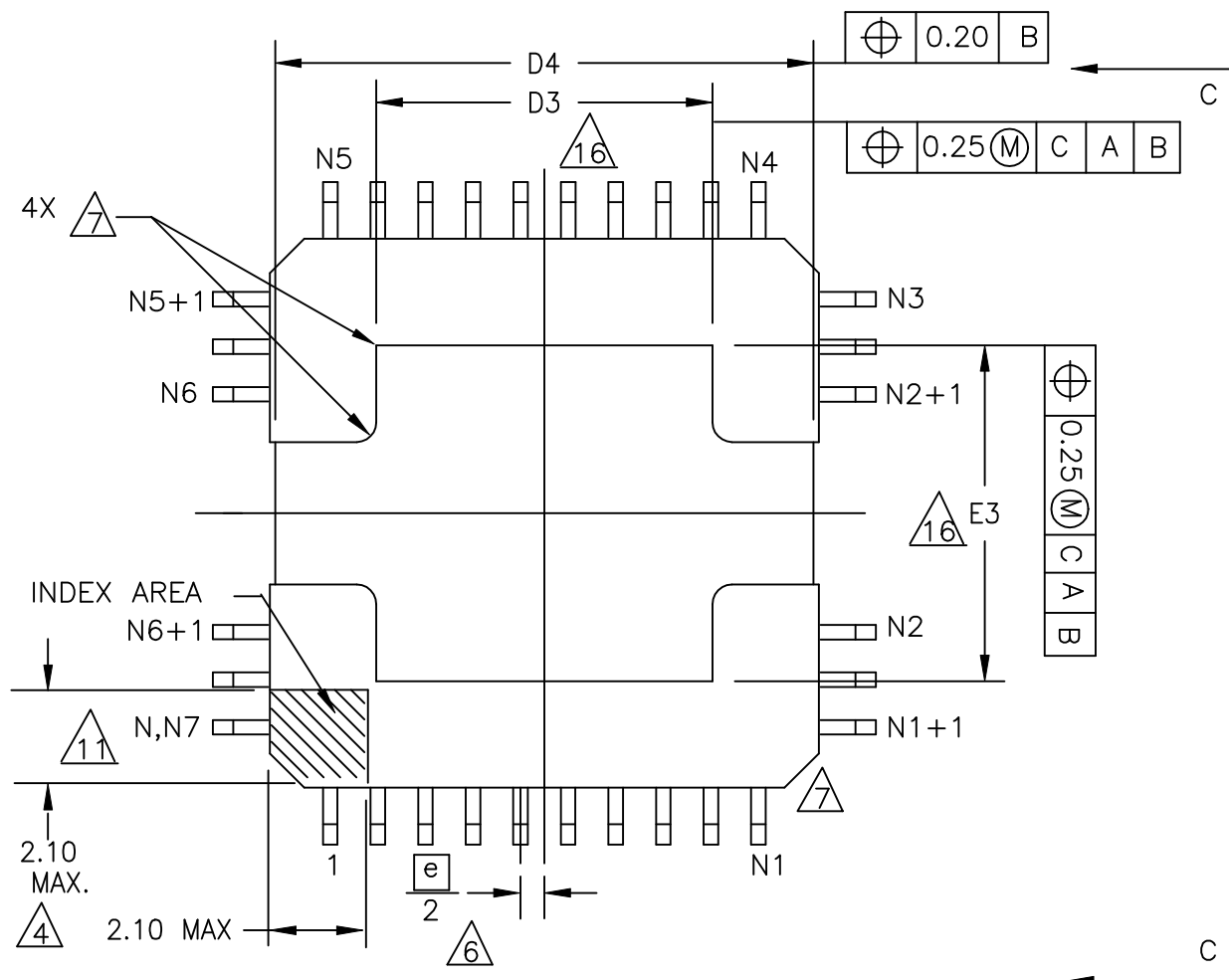


VIEW A-A

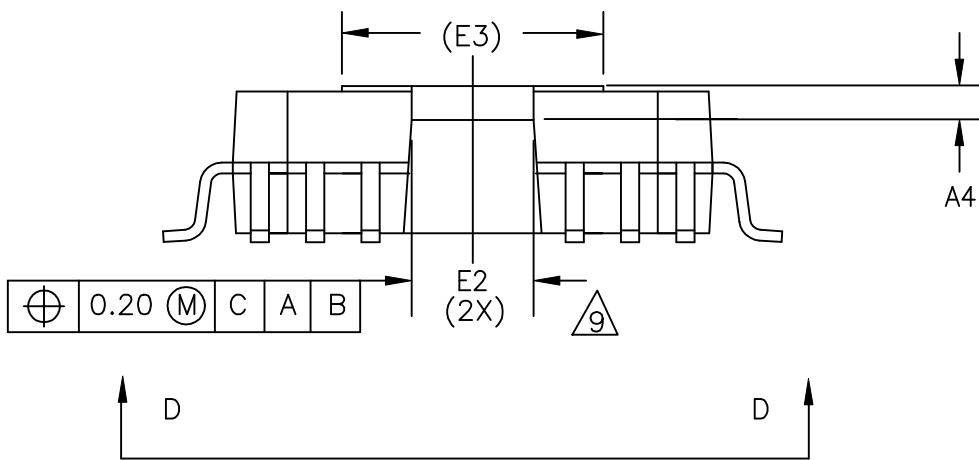


BOTTOM VIEW B-B

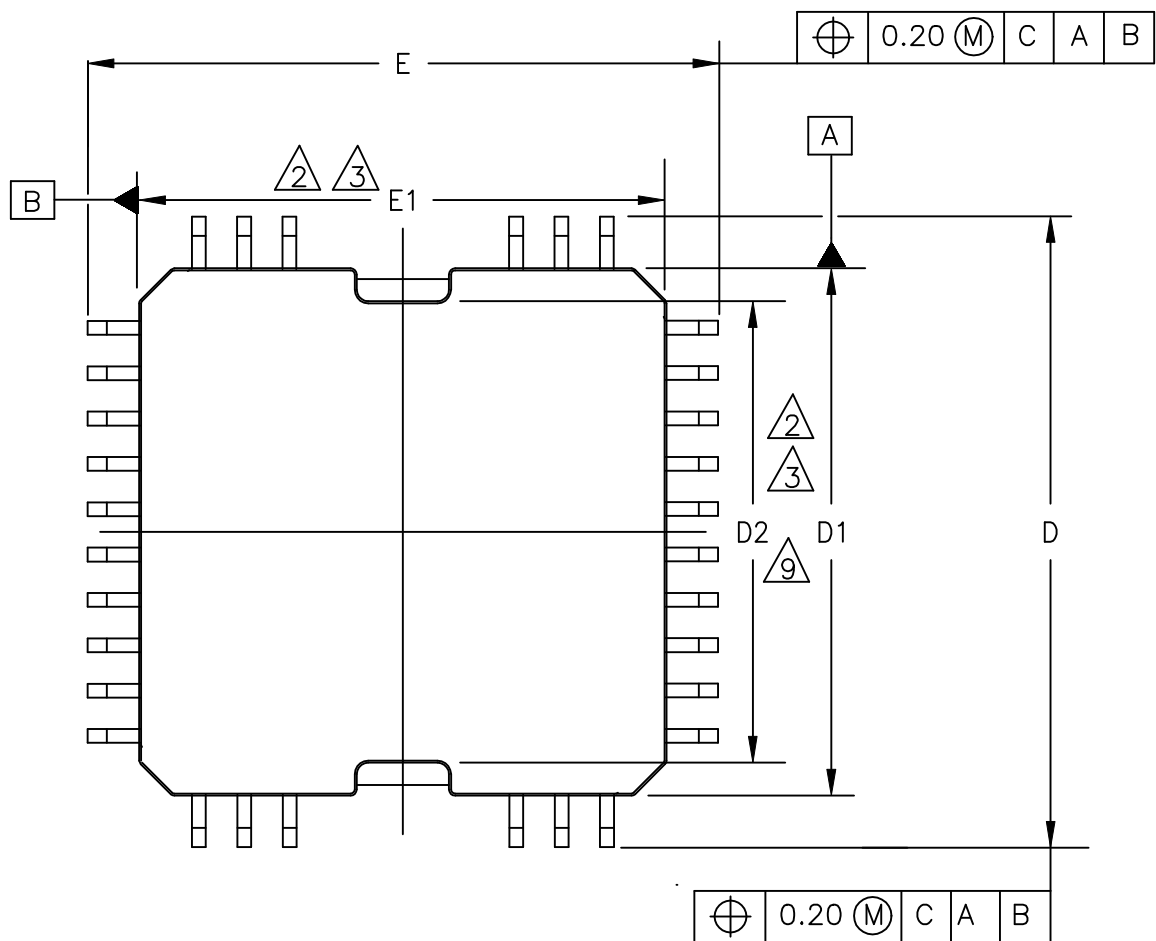
SLUG DOWN



SLUG UP

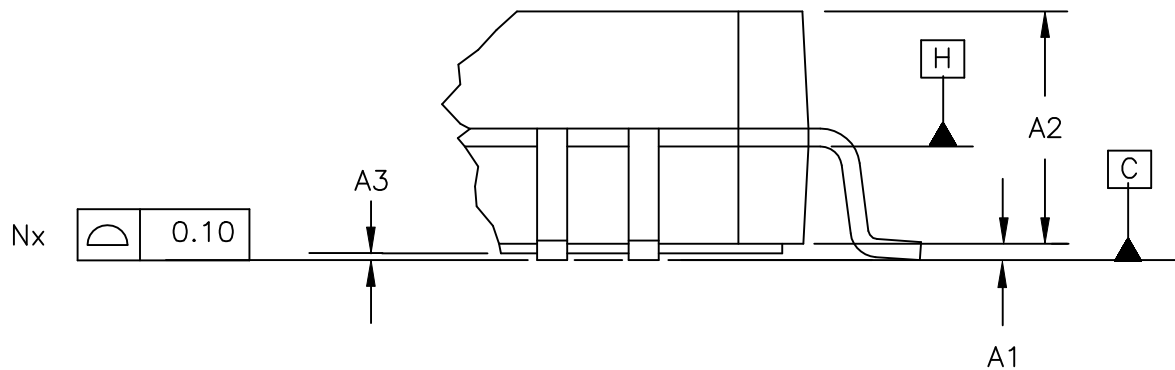


VIEW C-C

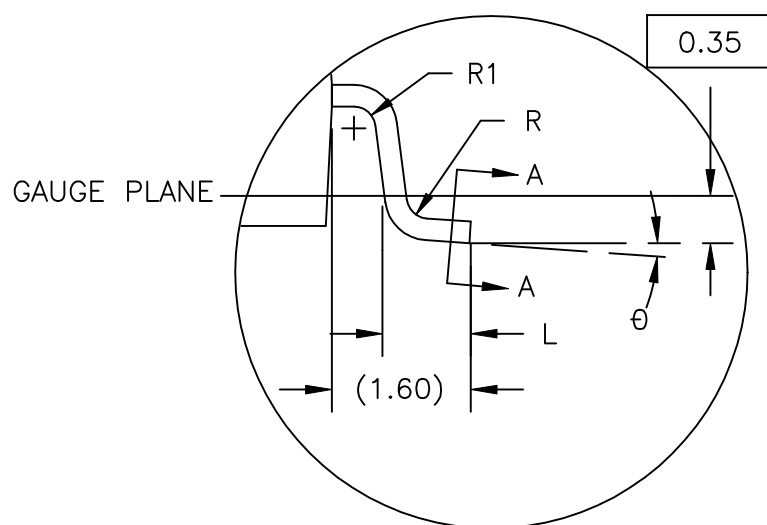


BOTTOM VIEW D-D

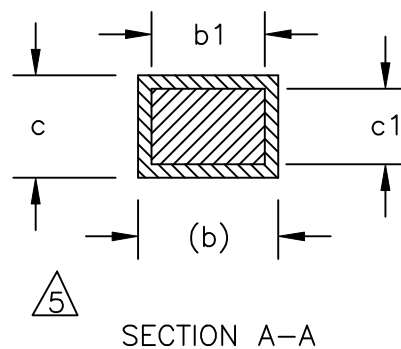
SLUG UP



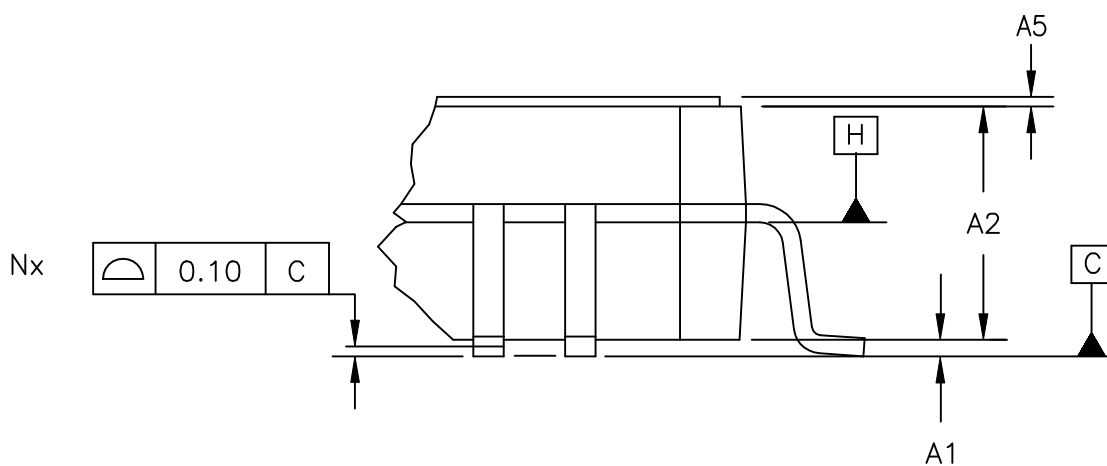
DETAIL A



DETAIL B



SECTION A-A



DETAIL C

SUMMARY TABLE					
BODY SIZE	PITCH	LEAD COUNT	VARIATIONS		NOTE
			SLUG DOWN	SLUG UP	
14X14	1.27	20	AA	BA	13
14X14	1.27	32	AB	BB	
14X14	1.00	26/52	AC	BC	12,13
14X14	1.00	42/52	AD	BD	12
14X14	0.80	32/64	AE	BE	12,13
14X14	0.80	52/64	AF	BF	12
14X14	0.65	40/80	AG	BG	12,13
14X14	0.65	64/80	AH	BH	12
14X14	0.50	78	AJ	BJ	

SYMBOL	COMMON DIMENSIONS			NOTE
	MIN	NOM	MAX	
A2	2.50	2.70	2.90	
A4	0.80	0.90	1.00	
c	0.23	—	0.32	5
c1	0.23	0.25	0.29	5
D1	13.90	14.00	14.10	2,3,10
D2	12.50	12.70	12.90	9
D3	9.30	9.50	9.70	16
D4	13.40	13.50	13.60	
E	16.95	17.20	17.45	
E1	13.90	14.00	14.10	2,3,10
E2	2.35	—	2.65	9
E3	9.30	9.50	9.70	16
R	0.15	—	—	
R1	0.10	—	—	
θ	0°	—	7°	
θ1	0°	—	10°	
L	0.80	—	1.10	
REF.	11-442 / 11-559			
ISSUE	A / B			
NOTE	1, 15			

JEDEC SOLID STATE PRODUCT OUTLINE	TITLE POWER PQFP HEAT SLUG PACKAGE	ISSUE B	DATE FEB 2000	MO-188	SHEET 6 OF 10
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SYMBOLS	VARIATIONS (ALL DIMENSIONS IN MILLIMETERS)											
	AA			NOTES	AB			NOTES	AC			NOTES
	MIN	NOM	MAX		MIN	NOM	MAX		MIN	NOM	MAX	
A	—	—	3.15		—	—	3.15		—	—	3.15	
A1	0	—	0.25		0	—	0.25		0	—	0.25	
A3	0	—	0.10		0	—	0.10		0	—	0.10	
A5	—	—	—		—	—	—		—	—	—	
b	0.40	—	0.53	5	0.40	—	0.53	5	0.35	—	0.50	5
b1	0.40	0.45	0.50	5	0.40	0.45	0.50	5	0.35	0.40	0.45	5
D	—	—	—		16.95	17.20	17.45		—	—	—	
N1	10			14	10			14	13			14
N2	—				13				—			
N3	—				16				—			
N4	11				17				14			
N5	20				26				26			
N6	—				29				—			
N7	—				32				—			
N	20			11	32			11	26			11
ⓔ	1.27 BSC				1.27 BSC				1.00 BSC			
TOLERANCES OF FORM AND POSITION												
aaa	0.25				0.25				0.20			
NOTES	1,15				1,15				1,15			
REF.	11—442				11—442				11—442			
ISSUE	A				A				A			
SYMBOLS	VARIATIONS (ALL DIMENSIONS IN MILLIMETERS)											
	AD			NOTES	AE			NOTES	AF			NOTES
	MIN	NOM	MAX		MIN	NOM	MAX		MIN	NOM	MAX	
A	—	—	3.15		—	—	3.15		—	—	3.15	
A1	0	—	0.25		0	—	0.25		0	—	0.25	
A3	0	—	0.10		0	—	0.10		0	—	0.10	
A5	—	—	—		—	—	—		—	—	—	
b	0.35	—	0.50	5	0.30	—	0.45	5	0.30	—	0.45	5
b1	0.35	0.40	0.45	5	0.30	0.35	0.40	5	0.30	0.35	0.40	5
D	16.95	17.20	17.45		—	—	—		16.95	17.20	17.45	
N1	13			14	16			14	16			14
N2	17				—				21			
N3	21				—				26			
N4	22				17				27			
N5	34				32				42			
N6	38				—				47			
N7	42				—				52			
N	42			11	32			11	52			11
ⓔ	1.00 BSC				0.80 BSC				0.80 BSC			
TOLERANCES OF FORM AND POSITION												
aaa	0.20				0.20				0.20			
NOTES	1,15				1,15				1,15			
REF.	11—442				11—442				11—442			
ISSUE	A				A				A			
JEDEC SOLID STATE PRODUCT OUTLINE			TITLE POWER PQFP HEAT SLUG PACKAGE					ISSUE B	DATE FEB 2000	MO—188		SHEET 7 OF 10











SYMBOLS	VARIATIONS (ALL DIMENSIONS IN MILLIMETERS)											
	AG			NOTES	AH			NOTES	AJ			NOTES
	MIN	NOM	MAX		MIN	NOM	MAX		MIN	NOM	MAX	
A	—	—	3.15		—	—	3.15		—	—	3.15	
A1	0	—	0.25		0	—	0.25		0	—	0.25	
A3	0	—	0.10		0	—	0.10		0	—	0.10	
A5	—	—			—	—			—	—		
b	0.22	—	0.38	5	0.22	—	0.38	5	0.15	—	0.28	5
b1	0.22	.030	0.33	5	0.22	0.30	0.33	5	0.15	0.21	0.24	5
D	—	—	—		16.95	17.20	17.45		—	—	—	
N1	20			14	20			14	25			14
N2	—				26				32			
N3	—				32				39			
N4	21				33				40			
N5	40				52				64			
N6	—				58				71			
N7	—				64				78			
N	40			11	64			11	78			11
Ⓢ	0.65 BSC				0.65 BSC				0.50 BSC			
TOLERANCES OF FORM AND POSITION												
aaa	0.12				0.12				0.10			
NOTES	1,15				1,15				1,15			
REF.	11—442				11—442				11—559			
ISSUE	A				A				B			

SYMBOLS	VARIATIONS (ALL DIMENSIONS IN MILLIMETERS)											
	BA			NOTES	BB			NOTES	BC			NOTES
	MIN	NOM	MAX		MIN	NOM	MAX		MIN	NOM	MAX	
A	—	—	3.40		—	—	3.40		—	—	3.40	
A1	0	—	0.25		0	—	0.25		0	—	0.25	
A3	—	—	—		—	—	—		—	—	—	
A5	0.07	0.10	0.13		0.07	0.10	0.13		0.07	0.10	0.13	
b	0.40	—	0.53	5	0.40	—	0.53	5	0.35	—	0.50	5
b1	0.40	0.45	0.50	5	0.40	0.45	0.50	5	0.35	0.40	0.45	5
D	16.95	17.20	17.45		16.95	17.20	17.45		—	—	—	
N1	10			14	10			14	13			14
N2	—				13				—			
N3	—				16				—			
N4	11				17				14			
N5	20				26				26			
N6	—				29				—			
N7	—				32				—			
N	20			11	32			11	26			11
Ⓢ	1.27 BSC				1.27 BSC				1.00 BSC			
TOLERANCES OF FORM AND POSITION												
aaa	0.25				0.25				0.20			
NOTES	1,15				1,15				1,15			
REF.	11—442/11—559				11—442/11—559				11—442/11—559			
ISSUE	A/B				A/B				A/B			

JEDEC SOLID STATE PRODUCT OUTLINE		TITLE POWER PQFP HEAT SLUG PACKAGE					ISSUE B	DATE FEB 2000	MO—188		SHEET 8 OF 10
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SYMBOLS	VARIATIONS (ALL DIMENSIONS IN MILLIMETERS)											
	BD			NOTES	BE			NOTES	BF			NOTES
	MIN	NOM	MAX		MIN	NOM	MAX		MIN	NOM	MAX	
A	—	—	3.40		—	—	3.40		—	—	3.40	
A1	0	—	0.25		0	—	0.25		0	—	0.25	
A3	—	—	—		—	—	—		—	—	—	
A5	0.07	0.10	0.13		0.07	0.10	0.13		0.07	0.10	0.13	
b	0.35	—	0.50	5	0.30	—	0.45	5	0.30	—	0.45	5
b1	0.35	0.40	0.45	5	0.30	0.35	0.40	5	0.30	0.35	0.40	5
D	16.95	17.20	17.45		—	—	—		16.95	17.20	17.45	
N1	13			14	16			14	16			14
N2	17				—				21			
N3	21				—				26			
N4	22				17				27			
N5	34				32				42			
N6	38				—				47			
N7	42				—				52			
N	42			11	32			11	52			11
ⓔ	1.00 BSC				0.80 BSC				0.80 BSC			
TOLERANCES OF FORM AND POSITION												
aaa	0.20				0.20				0.20			
NOTES	1,15				1,15				1,15			
REF.	11-442/11-559				11-442/11-559				11-442/11-559			
ISSUE	A/B				A/B				A/B			
SYMBOLS	VARIATIONS (ALL DIMENSIONS IN MILLIMETERS)											
	BG			NOTES	BH			NOTES	BJ			NOTES
	MIN	NOM	MAX		MIN	NOM	MAX		MIN	NOM	MAX	
A	—	—	3.40		—	—	3.40		—	—	3.40	
A1	0	—	0.25		0	—	0.25		0	—	0.25	
A3	—	—	—		—	—	—		—	—	—	
A5	0.07	0.10	0.13		0.07	0.10	0.13		0.07	0.10	0.13	
b	0.22	—	0.38	5	0.22	—	0.38		0.15	—	0.28	
b1	0.22	0.30	0.33	5	0.22	0.30	0.33		0.15	0.21	0.24	
D	—	—	—			17.20	17.45			17.20	17.45	
N1	20			14	20				25			
N2	—				26				32			
N3	—				32				39			
N4	21				33				40			
N5	40				52				64			
N6	—				58				71			
N7	—				64				78			
N	40			11	64				78			
ⓔ	1.00 BSC				0.65 BSC				0.50 BSC			
TOLERANCES OF FORM AND POSITION												
aaa	0.20				0.12				0.10			
NOTES	1,15				1,15				1,15			
REF.	11-442/11-559				11-442/11-559				11-559			
ISSUE	A/B				A/B				B			
JEDEC SOLID STATE PRODUCT OUTLINE		TITLE POWER PQFP HEAT SLUG PACKAGE					ISSUE B	DATE FEB 2000	MO-188		SHEET 9 OF 10	

NOTES:

1. DIMENSIONING AND TOLERANCING PER
ASME Y14.5M-1994.
-  2. DIMENSION D1 AND E1 DO NOT INCLUDE MOLD FLASH,
PROTRUSIONS OR GATE BURRS. MOLD FLASH,
PROTRUSIONS OR GATE BURRS SHALL NOT
EXCEED 0.15 PER SIDE.
-  3. DIMENSION D1 AND E1 DO NOT INCLUDE INTERLEAD
FLASH OR PROTRUSION. INTERLEAD FLASH OR
PROTRUSION SHALL NOT EXCEED 0.15 PER SIDE.
-  4. A VISUAL INDEX FEATURE MUST BE
LOCATED WITHIN THE CROSS-HATCHED AREA.
-  5. THESE DIMENSIONS APPLY TO THE FLAT
SECTION OF THE LEAD BETWEEN 0.10 AND
0.25 mm FROM THE LEADTIP.
-  6. THIS DIMENSION IS 0.00 FOR VARIATIONS
WHICH HAVE AN ODD NUMBER OF LEADS
PER SIDE.
-  7. EXACT SHAPE AND SIZE OF THIS FEATURE
IS OPTIONAL.
-  8. SEATING PLANE IS DEFINED BY LEAD TIPS ONLY.
-  9. E2 AND D2 ARE THE DIMENSIONS OF THE MOLDED PLASTIC
AT THE BASE OF THE DRAFT ANGLE.
10. E1 AND D1 ARE MEASURED AT DATUM H.
-  11. N IS THE MAX NUMBER OF LEADS
12. X/Y IS WHERE X IS ACTUAL LEAD COUNT FOR VARIATION SHOWN,
Y IS THEORETICAL MAX LEAD COUNT FOR 14X14 BODY SIZE.
13. THESE VARIATIONS HAVE LEADS ON 2 SIDES ONLY.
14. DESIGNATION Nx, WHERE x VARIES FROM 1 TO 7, INDICATES THE LEAD NUMBER
AT THAT POSITION.
15. DIMENSIONS ARE IN MILLIMETERS.
-  16. DIMENSIONS SHOW THE EXPOSED HEAT SLUG

JEDEC SOLID STATE PRODUCT OUTLINE	TITLE POWER PQFP HEAT SLUG PACKAGE	ISSUE B	DATE FEB 2000	MO-188	SHEET 10 OF 10
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