

CTC APPROVAL CODE		020609PC9			
REV	POS	DESCRIPTION	DATE	BY	APPD
E	—	DRAFT ANGLE 9±2° BOTTOM VDI #12~27	2008-12-27	MR. LOO	
D	—	CHANGED LOGO	2008-11-20	MR. SUNG/ ZUNHA	
DWG NO		PKGS00002	TOLERANCES (INCH/MM)		
FRAC		±	DECIMALS		
ANGLE		±	ANGLE		
SYMBOL			FINISHING		
ORIGINATOR		E	SCALE		
REQUESTOR		NTS	TITLE		
TOOLING DEPT MANAGER			SOIC 16/18/20/24/28LD		
ENGINEERING MANAGER			WIDE BODY		
QA DEPT MANAGER			PACKAGE OUTLINE		
CTC DESIGN DEPT MANAGER			REF NO : CUSTOMER SPECIFICATION		
			SHEET NO : 1 OF 3		



SYMBOL	SOIC-16LD	
	MILLIMETERS	
	MIN	MAX
A	2.44	2.64
A1	0.10	0.30
A2	2.24	2.44
B	0.36	0.46
C	0.23	0.32
D	10.11	10.31
E	7.40	7.60
e	1.27 BSC	
H	10.11	10.51
h	0.31	0.71
J	0.53	0.73
K	7° BSC	
L	0.51	1.01
R	0.63	0.89
ZD	0.66 REF	
α	0°	8°

SYMBOL	SOIC-18LD	
	MILLIMETERS	
	MIN	MAX
A	2.44	2.64
A1	0.10	0.30
A2	2.24	2.44
B	0.36	0.46
C	0.23	0.32
D	11.48	11.68
E	7.40	7.60
e	1.27 BSC	
H	10.11	10.51
h	0.31	0.71
J	0.53	0.73
K	7° BSC	
L	0.51	1.01
R	0.63	0.89
ZD	0.71 REF	
α	0°	8°

SYMBOL	SOIC-20LD	
	MILLIMETERS	
	MIN	MAX
A	2.44	2.64
A1	0.10	0.30
A2	2.24	2.44
B	0.36	0.46
C	0.23	0.32
D	12.65	12.85
E	7.40	7.60
e	1.27 BSC	
H	10.11	10.51
h	0.31	0.71
J	0.53	0.73
K	7° BSC	
L	0.51	1.01
R	0.63	0.89
ZD	0.66 REF	
α	0°	8°

SYMBOL	SOIC-24LD	
	MILLIMETERS	
	MIN	MAX
A	2.44	2.64
A1	0.10	0.30
A2	2.24	2.44
B	0.36	0.46
C	0.23	0.32
D	15.20	15.40
E	7.40	7.60
e	1.27 BSC	
H	10.11	10.51
h	0.31	0.71
J	0.53	0.73
K	7° BSC	
L	0.51	1.01
R	0.63	0.89
ZD	0.66 REF	
α	0°	8°




SYMBOL	SOIC-28LD	
	MILLIMETERS	
	MIN	MAX
A	2.44	2.64
A1	0.10	0.30
A2	2.24	2.44
B	0.36	0.46
C	0.23	0.32
D	17.73	17.93
E	7.40	7.60
e	1.27 BSC	
H	10.11	10.51
h	0.31	0.71
J	0.53	0.73
K	7° BSC	
L	0.51	1.01
R	0.63	0.89
ZD	0.66 REF	
α	0°	8°

NOTES :

- LEAD COPLANARITY SHOULD BE 0 TO 0.10MM (.004") MAX.
- PACKAGE SURFACE FINISHING :
  - TOP : MATTE (CHARMILLES #18~30).
  - BOTTOM : SMOOTH OR MATTE (CHARMILLES #12~27).
- ALL DIMENSIONS EXCLUDING MOLD FLASHES AND END FLASH FROM THE PACKAGE BODY SHALL NOT EXCEED 0.25MM (.010") PER SIDE(D).  
 ▲ DETAIL OF PIN #1 IDENTIFIER ARE OPTIONAL BUT MUST BE LOCATED WITHIN THE ZONE INDICATED.

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020609PC9

DWG NO		PKGS00002		FINISHING		REV		E		SCALE		NTS		 <b>Carsem</b> Your Technology Partner	
TOLERANCES (INCH/MM)				 REQUESTOR TOOLING DEPT MANAGER ENGINEERING MANAGER		ORIGINATOR									
FRAC		DECIMALS		SYMBOL		QA DEPT MANAGER								REF NO : CUSTOMER SPECIFICATION	
±		X XX XXX XXXX		 CTG DESIGN DEPT MANAGER										SHEET NO : 2 OF 3	
DRAFT ANGLE 9±2°															
BOTTOM VDI #12~27															
CHANGED LOGO															
DESCRIPTION		DATE		BY		APPD									

SYMBOL	SOIC-16LD	
	INCHES	
	MIN	MAX
A	.096	.104
A1	.004	.012
A2	.088	.096
B	.014	.018
C	.0091	.0125
D	.398	.406
E	.291	.299
e	.050 BSC	
H	.398	.414
h	.012	.028
J	.021	.029
K	7° BSC	
L	.020	.040
R	.025	.035
ZD	.026 REF	
α	0°	8°

SYMBOL	SOIC-18LD	
	INCHES	
	MIN	MAX
A	.096	.104
A1	.004	.012
A2	.088	.096
B	.014	.018
C	.0091	.0125
D	.452	.460
E	.291	.299
e	.050 BSC	
H	.398	.414
h	.012	.028
J	.021	.029
K	7° BSC	
L	.020	.040
R	.025	.035
ZD	.028 REF	
α	0°	8°

SYMBOL	SOIC-20LD	
	INCHES	
	MIN	MAX
A	.096	.104
A1	.004	.012
A2	.088	.096
B	.014	.018
C	.0091	.0125
D	.498	.506
E	.291	.299
e	.050 BSC	
H	.398	.414
h	.012	.028
J	.021	.029
K	7° BSC	
L	.020	.040
R	.025	.035
ZD	.026 REF	
α	0°	8°

SYMBOL	SOIC-24LD	
	INCHES	
	MIN	MAX
A	.096	.104
A1	.004	.012
A2	.088	.096
B	.014	.018
C	.0091	.0125
D	.598	.606
E	.291	.299
e	.050 BSC	
H	.398	.414
h	.012	.028
J	.021	.029
K	7° BSC	
L	.020	.040
R	.025	.035
ZD	.026 REF	
α	0°	8°


SYMBOL	SOIC-28LD	
	INCHES	
	MIN	MAX
A	.096	.104
A1	.004	.012
A2	.088	.096
B	.014	.018
C	.0091	.0125
D	.698	.706
E	.291	.299
e	.050 BSC	
H	.398	.414
h	.012	.028
J	.021	.029
K	7° BSC	
L	.020	.040
R	.025	.035
ZD	.026 REF	
α	0°	8°

NOTES :

1. LEAD COPLANARITY SHOULD BE 0 TO 0.10MM (.004") MAX.
2. PACKAGE SURFACE FINISHING :
  - (2.1) TOP : MATTE (CHARMILLES #18~30).
  - (2.2) BOTTOM : SMOOTH OR MATTE (CHARMILLES #12~27).
3. ALL DIMENSIONS EXCLUDING MOLD FLASHES AND END FLASH FROM THE PACKAGE BODY SHALL NOT EXCEED 0.25MM (.010") PER SIDE(D).
  - ▲ DETAIL OF PIN #1 IDENTIFIER ARE OPTIONAL BUT MUST BE LOCATED WITHIN THE ZONE INDICATED.

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DWG NO		PKGS00002		FINISHING	
TOLERANCES (INCH/MM)		DECIMALS		SYMBOL	
FRAC	±	X	/	⊕	⊖
ANGLE	±	XX	/	⊕	⊖
		XXX	/	⊕	⊖
		XXXX	/	⊕	⊖
REV	NO	E	SCALE	NTS	
ORIGINATOR	REQUESTOR	TOOLING DEPT MANAGER	ENGINEERING MANAGER	QA DEPT MANAGER	CTC DESIGN DEPT MANAGER
 <b>Carsem</b> Your Technology Partner			TITLE SOIC 16/18/20/24/28LD WIDE BODY PACKAGE OUTLINE REF NO : CUSTOMER SPECIFICATION SHEET NO : 3 OF 3		