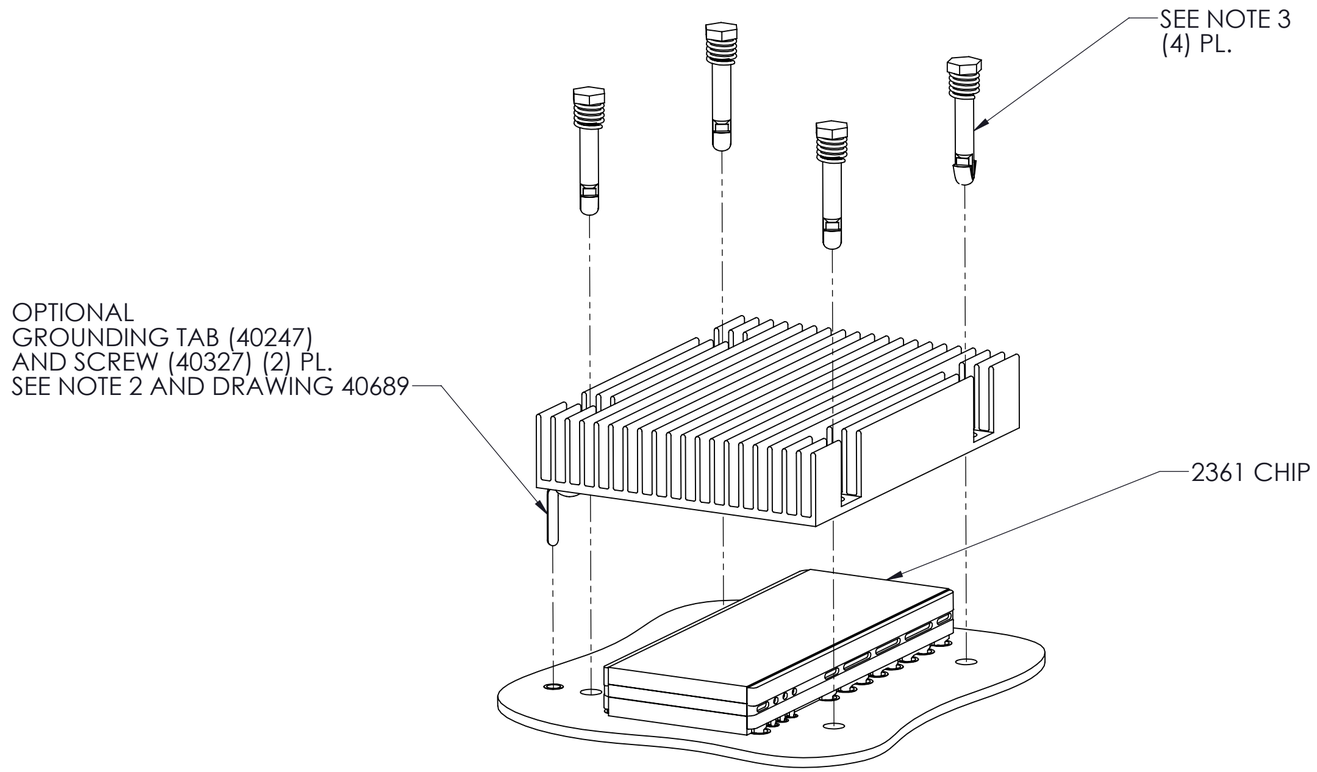
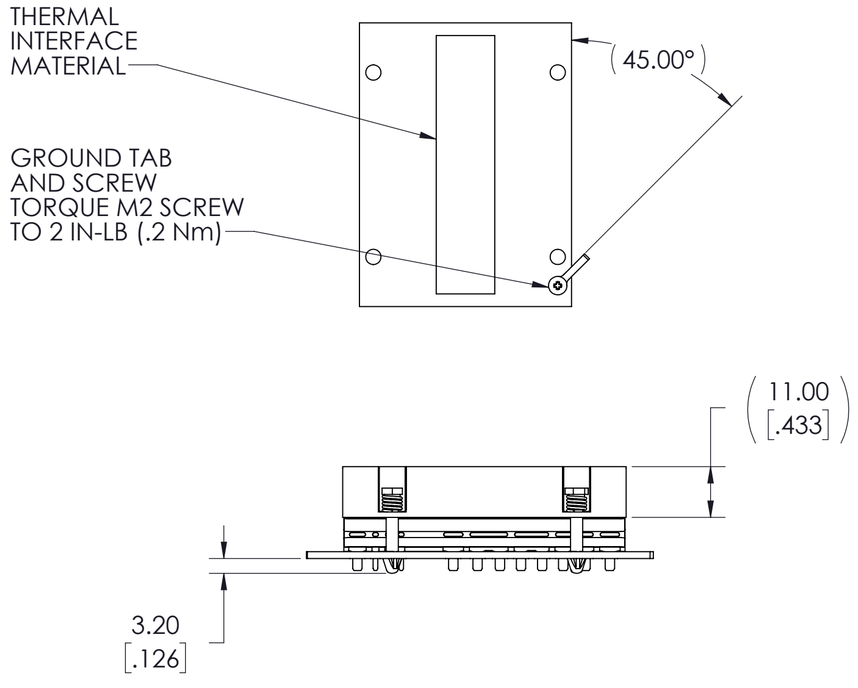
REV.	DESCRIPTION	INTL	DATE	APVD
1	RELEASED PER ECO E141368	ESD	01/19/2015	RH
2	REVISED PER E200529	DKT	10/19/2020	RLT



ISO ASSY REF ONLY



NOTES:

1. FOR PCB LAYOUT SEE VICOR APPLICATION DRAWING 40689.

2. THE SOLDERING METHOD USED FOR CHIPS (AND OPTIONAL HEATSINK GROUNDING) IS IMPORTANT WHEN SELECTING A THERMAL INTERFACE MATERIAL (TIM). THE PHASE-CHANGE TIM SHOWN IN THESE ILLUSTRATIONS MAY BE DAMAGED BY TEMPERATURES OVER 125C, SO TWO ASSEMBLY PROCEDURES ARE DESCRIBED BELOW:
   (A) FOR HAND-SOLDERING ONLY,
   (B) FOR WAVE-SOLDERING AND/OR HAND-SOLDERING.

   (A) PLACE CHIP AND TOP-SIDE HEATSINK (WITH PRE-ATTACHED TIM AND GROUNDING TAB) ON PCB. WHILE SUPPORTING PCB, INSERT PLASTIC PUSH-PINS THROUGH HEATSINK AND PCB. (SELECT PROPER PUSH-PIN LENGTH FROM TABLE ON THIS DRAWING.) HAND-SOLDER CHIP AND GROUNDING PIN.

   (B) WAVE SOLDERING TEMPERATURES ARE UNSUITABLE FOR PLASTIC PUSH-PINS AND PHASE-CHANGE TIM, SO PARKER CHOMERICS GEL8010 IS RECOMMENDED AS A TIM. APPLY A UNIFORM .003" (.076MM) LAYER OF TIM TO THE TOP SURFACE OF THE CHIP, OR TO THE BOTTOM SURFACE OF THE HEATSINK. PLACE CHIP ON PCB AND TOP-SIDE HEATSINK ON CHIP. WITH A CUSTOM FIXTURE APPLY APPROX. 10 LBS LOAD TO THE TOP-SIDE HEATSINK AND THEN WAVE-SOLDER ALL PINS. REMOVE FIXTURE AND, WHILE SUPPORTING PCB, INSERT PLASTIC PUSH-PINS THROUGH HEATSINK AND PCB. (SELECT PROPER PUSH-PIN LENGTH FROM TABLE ON THIS DRAWING.)

3. CARE SHOULD BE TAKEN TO AVOID FULLY COMPRESSING THE PUSH-PIN SPRING DURING INSTALLATION AS THIS WOULD EXPOSE THE CHIP TO FORCES GREATER THAN THE RECOMMENDED LIMIT OF 3.1 LBF (13.8 N) PER PUSH-PIN.

4. RoHS COMPLIANT PER CST-0001 LATEST REVISION.

PUSH-PIN FOR CHIP HEATSINK CHART

PUSH-PINS W/ SPRINGS (100/BAG)	COLOR	PCB THK NOMINAL RANGE	PCB THK MINIMUM	PCB THK MAXIMUM
32434	WHITE	1.143 MM TO 1.422 MM [.045"] TO [.056"]	1.016 MM [.040"]	1.575 MM [.062"]
32435	BLACK	1.448 MM TO 2.311 MM [.057"] TO [.091"]	1.295 MM [.051"]	2.565 MM [.101"]
32436	BLUE	2.337 MM TO 3.023 MM [.092"] TO [.119"]	2.083 MM [.082"]	3.353 MM [.132"]
32437	GRAY	3.048 MM TO 3.607 MM [.120"] TO [.142"]	2.743 MM [.108"]	3.988 MM [.157"]

DRAWN BY	DATE
Robert Wasik	02/24/2014

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE MM /[INCH]

TOLERANCES ARE:
DECIMALS: X.XX [X.X] = ±0.25 [0.01]; X.XXX [X.XX] = ±0.127 [0.005]
ANGLES: ±1°

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

VICOR SWD

APP DWG ChiP PUSHPIN HS TOP 2361

SIZE	CAGE CODE	DWG NO	REV
C	67131	40703	2

SCALE 1:1 | SHEET 1 OF 1