

Excellent Integrated System Limited

Stocking Distributor

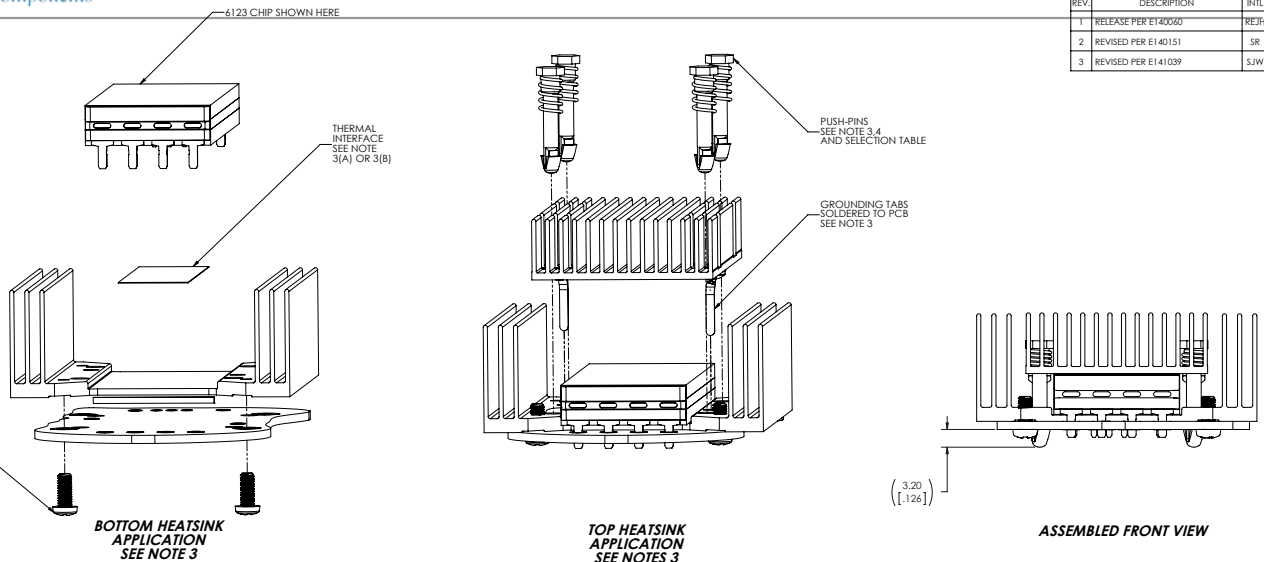
Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Vicor Corporation](#)
[40520](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

REV	DESCRIPTION	INTL	DATE	APVD
1	RELEASE PER E140050	REJH	01/17/14	REW
2	REVISED PER E140151	SR	01/30/2014	REW
3	REVISED PER E141039	SJW	09/03/14	RH



- NOTES:
- FOR PCB LAYOUT SEE VICOR APPLICATION DRAWING 4043B.
 - ROHS COMPLIANT PER CST-0001 LATEST REVISION.
 - 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 125°C. SO TWO ASSEMBLY PROCEDURES ARE DESCRIBED BELOW:
 - (A) FOR HAND-SOLDERING ONLY.
 - (B) FOR WAVE-SOLDERING AND/OR HAND-SOLDERING.

(A) PLACE BOTTOM-SIDE HEATSINK (WITH PRE-ATTACHED PHASE-CHANGE TIM) ON PCB. PLACE CHIP AND TOP-SIDE HEATSINK (WITH PRE-ATTACHED TIM AND GROUNDING TABS), WHILE SUPPORTING PCB, INSERT PLASTIC PUSH-PINS THROUGH BOTH HEATSINKS AND PCB. [SELECT PROPER PUSH-PIN LENGTH FROM TABLE ON THIS DRAWING.] IMPORTANT: TO SET FINAL THICKNESS OF PHASE-CHANGE TIM ENSURE THAT THE ENTIRE ASSEMBLY IS RAISED ABOVE GSC FOR SEVERAL MINUTES. HAND-SOLDER ALL CHIP AND GROUNDING PINS. ADDITIONAL SOLDERING IRON HEAT MAY BE REQUIRED TO COMPENSATE FOR LOSSES TO THE HEATSINKS.

(B) WAVE SOLDERING TEMPERATURES ARE UNSUITABLE FOR PLASTIC PUSH-PINS AND PHASE-CHANGE TIM, SO VICOR TIM 40325 (PARKER CHEMICALS' GE8010) IS RECOMMENDED. APPLY A UNIFORM .003" (.076MM) LAYER OF TIM 40325 TO THE TOP AND BOTTOM SURFACE OF THE CHIP, OR TO THE CORRESPONDING HEATSINK SURFACES. PLACE BOTTOM-SIDE HEATSINK, CHIP, AND TOP-SIDE HEATSINK ON PCB. WITH A CUSTOM FIXTURE APPLY APPROX. 10 LBS LOAD TO THE TOP-SIDE HEATSINK AND THEN WAVE-SOLDER ALL PINS. REMOVE FIXTURE AND INSERT PLASTIC PUSH-PINS THROUGH BOTH HEATSINKS AND PCB. [SELECT PROPER PUSH-PIN LENGTH FROM TABLE ON THIS DRAWING.]
 - 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.

	HEATSINK TYPE	P/N ASSY HEATSINKS, TIM AND GROUNDING TAB ONLY	P/N ASSY HEATSINK W/ GROUNDING TAB ONLY
SOLDERING METHOD (SEE NOTE 2)	-	2(A) HAND SOLDER ONLY	2(B) WITH VICOR 40325 THERMAL GEL
	4623	DUAL 11MM 40519 40408	40527
4123	DUAL 11MM 40520	40528	-
	DUAL 19MM 40469	-	-

HEATSINK OPTIONS

PUSH-PINS W/ SPRINGS (100/BAG)	COLOR	PCB THK NOMINAL RANGE	PCB THK MINIMUM	PCB THK MAXIMUM
32436	BLUE	1.143 MM TO 1.854 MM [.045"] TO [.073"]	1.041 MM [.041"]	2.057 MM [.081"]
32437	GRAY	1.880 MM TO 2.438 MM [.074"] TO [.096"]	1.676 MM [.066"]	2.692 MM [.106"]

PUSH-PIN SELECTION

<table border="1"> <tr> <th>REVISION</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> </tr> </table>	REVISION	DATE																	
REVISION	DATE																		
<p>APP DWG, DUAL HEATSINK, 6123, 4623</p>																			
<table border="1"> <tr> <td>SCALE: 3:1</td> <td> <table border="1"> <tr> <td>REV</td> <td> </td> </tr> <tr> <td>40191</td> <td> </td> </tr> <tr> <td>3</td> <td> </td> </tr> </table> </td> </tr> </table>	SCALE: 3:1	<table border="1"> <tr> <td>REV</td> <td> </td> </tr> <tr> <td>40191</td> <td> </td> </tr> <tr> <td>3</td> <td> </td> </tr> </table>	REV		40191		3		<table border="1"> <tr> <td> <table border="1"> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table> </td> <td> <table border="1"> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table> </td> </tr> </table>	<table border="1"> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>					<table border="1"> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>				
SCALE: 3:1	<table border="1"> <tr> <td>REV</td> <td> </td> </tr> <tr> <td>40191</td> <td> </td> </tr> <tr> <td>3</td> <td> </td> </tr> </table>	REV		40191		3													
REV																			
40191																			
3																			
<table border="1"> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>					<table border="1"> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>														