



Product Change Notice

PCN #: VE20250502

Date: May 2, 2025

To Our Valued Customers:

We appreciate your use of Vicor power modules. The purpose of this notice is to inform of a specification change to the BCM6123x60E15A3yzz

PCN Type:

Product specification change

Product(s) Affected:

BCM6123T60E15A3T0R	BCM6123T60E15A3TA0
BCM6123T60E15A3T00	BCM6123T60E15A3T01

Proposed Changes:

Change to Output Resistance specification as detailed below:

Existing Datasheet Rev 1.4

General Powertrain PRIMARY to SECONDARY Specification (Forward Direction)						
Attribute	Symbol	Conditions / Notes	Min	Typ	Max	Unit
PRI to SEC Output Resistance	^R SEC_COLD	V _{PRI_DC} = 54V, I _{SEC_OUT_DC} = 130A, T _{INTERNAL} = -40°C	1.2	1.5	1.8	mΩ
	^R SEC_AMB	V _{PRI_DC} = 54V, I _{SEC_OUT_DC} = 130A	1.6	1.95	2.3	
	^R SEC_HOT	V _{PRI_DC} = 54V, I _{SEC_OUT_DC} = 130A, T _{INTERNAL} = 100°C	2.2	2.5	2.8	

Revised Datasheet Rev 1.5 (blue text denotes change)

General Powertrain PRIMARY to SECONDARY Specification (Forward Direction)						
Attribute	Symbol	Conditions / Notes	Min	Typ	Max	Unit
PRI to SEC Output Resistance	^R SEC_COLD	V _{PRI_DC} = 54V, I _{SEC_OUT_DC} = 130A, T _{INTERNAL} = -40°C	1.2	1.5	2.0	mΩ
	^R SEC_AMB	V _{PRI_DC} = 54V, I _{SEC_OUT_DC} = 130A	1.6	1.95	2.5	
	^R SEC_HOT	V _{PRI_DC} = 54V, I _{SEC_OUT_DC} = 130A, T _{INTERNAL} = 100°C	2.2	2.5	2.8	

Existing Datasheet Rev 1.4

General Powertrain SECONDARY to PRIMARY Specification (Reverse Direction)						
Attribute	Symbol	Conditions / Notes	Min	Typ	Max	Unit
SEC to PRI Output Resistance	^R PRI_COLD	V _{SEC_DC} = 13.5V, I _{PRI_OUT_DC} = 32.5A, T _{INTERNAL} = -40°C	25	30	35	mΩ
	^R PRI_AMB	V _{SEC_DC} = 13.5V, I _{PRI_OUT_DC} = 32.5A	31	38	45	
	^R PRI_HOT	V _{SEC_DC} = 13.5V, I _{PRI_OUT_DC} = 32.5A, T _{INTERNAL} = 100°C	41	47	53	

Revised Datasheet Rev 1.5 (blue text denotes change)

General Powertrain SECONDARY to PRIMARY Specification (Reverse Direction)						
Attribute	Symbol	Conditions / Notes	Min	Typ	Max	Unit
SEC to PRI Output Resistance	^R PRI_COLD	V _{SEC_DC} = 13.5V, I _{PRI_OUT_DC} = 32.5A, T _{INTERNAL} = -40°C	25	30	39	mΩ
	^R PRI_AMB	V _{SEC_DC} = 13.5V, I _{PRI_OUT_DC} = 32.5A	31	38	49	
	^R PRI_HOT	V _{SEC_DC} = 13.5V, I _{PRI_OUT_DC} = 32.5A, T _{INTERNAL} = 100°C	41	47	53	

Reason for Change:

Additional MOSFET supplier added to the internal module BOM.

Actions Required:

Customer should make note of the update and contact Product Management with any questions or concerns.

Effective Dates:

Effective Immediately

Company Contact:

Product Management

Vicor Corporation

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