

Wolfspeed® Product/Process Change Notification

PCN Number: PCN-00180
PCN Type: Informational

PCN Issue Date: March 27, 2025

PCN Title

1200V Gen3 Wolfpack Modules Datasheet Update

Description of the Change

This informational PCN is to inform Wolfspeed's customers on an update to multiple Wolfpack datasheets. A small adjustment to the datasheets includes Gate Threshold Voltage ($V_{GS(th)}$ Max), Zero Gate Voltage Drain Current (I_{DSS} Max), Gate-Source Leakage Current (I_{GSS} Max) and Drain-Source On-State Resistance ($R_{DS(on)}$ Max). This change is made to align Wolfspeed modules across years of release and be in line with market trends.

Please see Table 1 below for details of the change.

Table 1. Details of the Change (change points highlighted in green).

Part Number		$V_{GS(th)}$	I_{DSS}	I_{GSS}	$R_{DS(on)}$
CBB021M12FM3/T	From	Max 3.9	Max 25	Max 100	Max 28.9
	To	Max 3.9	Max 100	Max 250	Max 28.9
CCB021M12FM3/T	From	Max 3.6	Max 25	Max 250	Max 27.9
	To	Max 3.9	Max 100	Max 250	Max 28.9
CCB032M12FM3/T	From	Max 3.6	Max 19	Max 250	Max 42.6
	To	Max 3.9	Max 100	Max 250	Max 45.7
CBB032M12FM3/T	From	Max 3.9	Max 19	Max 100	Max 44.0
	To	Max 3.9	Max 100	Max 250	Max 45.7
CAB016M12FM3/T	From	Max 3.6	Max 38	Max 0.5	Max 21.3
	To	Max 3.9	Max 200	Max 0.5	Max 22.1
CAB008A12GM3/T	From	Max 3.6	Max 80	Max 1.5	Max 10.4
CAB008M12GM3/T	To	Max 3.9	Max 400	Max 1.5	Max 11.5
CAB006A12GM3/T	From	Max 3.6	Max 114	Max 1.5	Max 6.9
CAB006M12GM3/T	To	Max 3.9	Max 600	Max 1.5	Max 7.2
CAB011A2GM3/T	From	Max 3.9	Max 57	Max 0.75	Max 13.9
	To	Max 3.9	Max 300	Max 0.75	Max 14.8
CCB016M12GM3/T	From	Max 3.9	Max 38	Max 500	Max 20.8
	To	Max 3.9	Max 200	Max 500	Max 22.1
CAB011M12FM3/T	From	Max 3.6	Max 50	Max 0.5	Max 14.0
	To	Max 3.9	Max 200	Max 0.5	Max 14.4

Benefit of the Change

Align test and datasheet limits across all gen3 1200V Wolfpack modules.

Affected Products

Table 2 lists the products affected by this Informational PCN.

Table 2. Affected Products List.

Wolfspeed Part Number	
CBB021M12FM3/T	CCB021M12FM3/T
CBB032M12FM3/T	CCB032M12FM3/T
CAB016M12FM3/T	CCB016M12GM3/T
CAB008A12GM3/T	CAB008M12GM3/T
CAB006A12GM3/T	CAB006M12GM3/T
CAB011A12GM3/T	CAB011M12FM3/T

Anticipated Impact

No change to the fit, form or function of the devices listed in Table 2. Table 3 summarizes the revision history of the datasheets relevant to this change. Wolfspeed urges its customers to utilize the updated datasheet.

Table 3. Datasheet Revision History.

Product	Package	Previous Datasheet Revision	New Datasheet Revision
CBB021M12FM3/T	Full-Bridge Module	Rev 3	Rev 4
CBB032M12FM3/T	Full-Bridge Module	Rev 3	Rev 4
CCB021M12FM3/T	Six-Pack Module	Rev 3	Rev 4
CCB032M12FM3/T	Six-Pack Module	Rev 3	Rev 4
CAB016M12FM3/T	Half-Bridge Module	Rev 4	Rev 5
CAB008A12GM3/T	Half-Bridge Module	Rev 2	Rev 3
CAB008M12GM3/T	Half-Bridge Module	Rev 3	Rev 4
CAB006A12GM3/T	Half-Bridge Module	Rev 2	Rev 3
CAB006M12GM3/T	Half-Bridge Module	Rev 3	Rev 4
CAB011A12GM3/T	Half-Bridge Module	Rev 4	Rev 5
CAB011M12FM3/T	Half-Bridge Module	Rev 4	Rev 5
CCB016M12GM3/T	Six-Pack Module	Rev 2	Rev 3

Contact Information

If you have any questions regarding this Informational PCN, please refer to the contact information listed in Table 4.

Table 4. PCN Contact.

Wolfspeed Contact	Arun Ashok and Calvin Flack
Wolfspeed Contact E-Mail	arun.ashok@wolfspeed.com calvin.flack2@wolfspeed.com
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Revision History

Date	Revision	Description
March 27, 2025	0	Initial release