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Compact Secondary-Side Synchronous Rectifier Control with USB Type-C Control

FAN6292BMX/FAN6292MX are highly integrated, secondary-side power adaptor controllers compatible with Type-C control. Internally adopted synchronous rectifier control helps for less BOM counts as well as easy design.

FAN6292BMX/FAN6292MX are also a source only USB Type-C controllers which are optimized for mobile chargers and power adapters. It supports standard 3 A VBUS current level. N-Channel MOSFET is compatible as a load switch, and helps to reduce BOM cost.

FAN6292BMX/FAN6292MX incorporate adaptive output under-voltage protection to improve system reliability.

Features

- Type-C Control for Standard 3 A VBUS Current
- N-Channel MOSFET Control as a Type-C Load Switch
- Internal Synchronous Rectifier Control Circuit
- Protections for Safe Operation; Output Under-Voltage-Protection

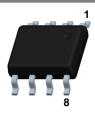
Typical Applications

- Battery Chargers for Smart Phones, Feature Phones, and Tablet PCs
- AC-DC Adapters for Portable Devices that Require CV/CC Control



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TSSOP-8

MARKING DIAGRAM



1st Line:

F: Corporate Logo Z: Assembly Plant Code X: Year Code Y: Week Code TT: Die Run Code

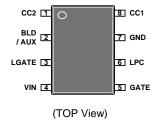
2nd Line:

6292 : IC Part Name for FAN6292MX 6292B: IC Part Name for

FAN6292BMX 3rd Line:

T: Package Type (M=SOIC) M: Manufacture Flow Code

PIN CONNECTIONS



ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 13 of this data sheet.

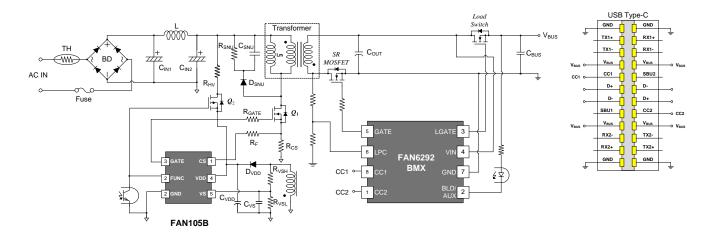


Figure 1 FAN6292BMX Typical Application Schematic

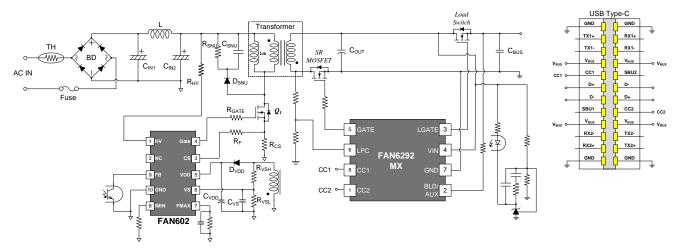


Figure 2 FAN6292MX Typical Application Schematic

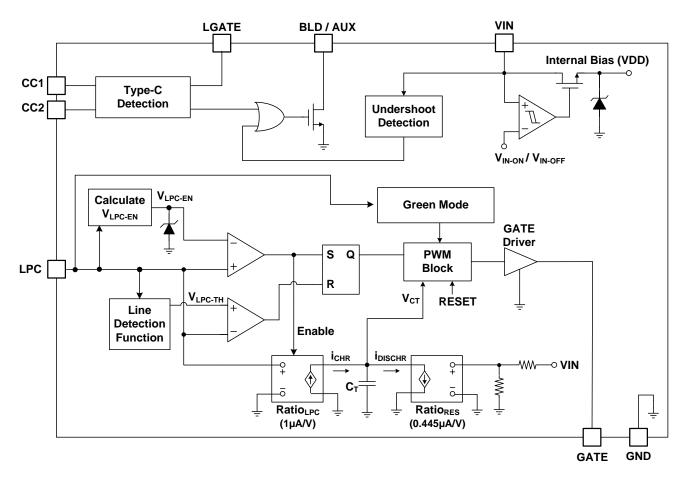


Figure 3 FAN6292BMX/FAN6292MX Function Block Diagram

PIN FUNCTION DESCRIPTION

Pin No.	Pin Name	Description
1	CC2	Configuration Channel 2. This pin is used to detect connections of Type-C cables and connectors. It is tied to the USB Type-C CC2.
2	BLD / AUX	Bleeder and AUX function. Discharging path of output capacitor when UFP detachment is acknowledged. In addition, information is delivered to primary to enhance output performance.
3	LGATE	Load Switch Gate. This pin is tied to the gate of the load switch
4	VIN	Input Voltage. This pin is tied to the output of the adaptor to monitor its output voltage and supply internal bias. IC operating current, and MOSFET gate drive current are supplied through this pin.
5	GATE	Gate Drive Output. Totem-pole output to drive the external SR MOSFET.
6	LPC	SR MOSFET Drain Voltage Detection. This pin is used to detect the voltage on the secondary winding during the on time period of the primary MOSFET.
7	GND	Ground.
8	CC1	Configuration Channel 1. This pin is used to detect connections of Type-C cables and connectors. It is tied to the USB Type-C CC1.

MAXIMUM RATINGS (Note 1.2.3)

Rating	Symbol	Value	Unit
VIN Pin Input Voltage	V _{IN}	20	V
BLD/AUX Pin Input Voltage	V _{BLD/AUX}	20	V
LGATE Pin Input Voltage	V _{LGATE}	20	V
CC1 Pin Input Voltage	V _{CC1}	-0.3 to 6.0	V
CC2 Pin Input Voltage	V _{CC2}	-0.3 to 6.0	V
LPC pin input voltage	VLPC	-0.3 to 6.5	V
GATE pin input voltage	VGATE	-0.3 to 6.0	V
Power Dissipation (T _A =25°C)	PD	850	mW
Operating Junction Temperature	TJ	-40 to 150	°C
Storage Temperature Range	T _{STG}	-40 to 150	°C
Lead Temperature, (Soldering,10 Seconds)	TL	260	°C
Human Body Model, ANSI/ESDA/JEDEC JS-001-2012 (Note 4)	ESD _{HBM}	4	kV
Charged Device Model, JESD22-C101 (Note 4)	ESD _{CDM}	1.75	kV

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

THERMAL CHARACTERISTICS (Note 5)

Rating	Symbol	Value	Unit
Thermal Characteristics,			
Thermal Resistance, Junction-to-Air	$R_{\theta JA}$	153	°C/W
Thermal Reference, Junction-to-Top	$R_{\psi JT}$	22	

T_A=25°C unless otherwise specified.

RECOMMENDED OPERATING RANGES (Note 6)

Rating	Symbol	Min	Max	Unit
VIN Pin Input Voltage	Vin	0	6	V
BLD/AUX Pin Input Voltage	V _{BLD/AUX}	0	6	V
LGATE Pin Input Voltage	VLGATE	0	10	V
CC1 Pin Input Voltage	V _{CC1}	0	5.8	V
CC2 Pin Input Voltage	V _{CC2}	0	5.8	V
LPC pin input voltage	VLPC	0	5	V
GATE pin input voltage	VGATE	0	5.5	V

Functional operation above the stresses listed in the Recommended Operating Ranges is not implied. Extended exposure to stresses beyond the Recommended Operating Ranges limits may affect device reliability.

All voltage values, except differential voltages, are given with respect to the GND pin.

Stresses beyond those listed under Absolute Maximum Ratings may cause permanent damage to the device. Meets JEDEC standards JS-001-2012 and JESD 22-C101.

ELECTRICAL CHARACTERISTICS

V_{IN} =5 V, LPC=1.5 V, LPC width=2 μ s at T _J = -4 Parameter	Test Conditions	Symbol	Min	Тур	Max	Unit
VIN Section				•		
Continuous Operating Voltage ⁽⁷⁾		V _{IN-OP}			6	V
Operating Supply Current	V _{IN} =5 V	I _{IN-OP-5V}		8		mA
	V _{IN} =5 V, with SR gate					
Green Mode Operating Supply Current	F = 400Hz	I _{IN-OP-Green}	0.5	0.9	1.3	mA
	CC1/CC2 open circuit					
Internal Bias Section						
Turn-On Threshold Voltage	V _{IN} increases	V _{IN-ON}	3.0	3.2	3.4	V
Turn-Off Threshold Voltage	V _{IN} decreases	V _{IN-OFF}	2.75	2.85	2.95	V
Green Mode Section (FAN6292BMX)				I	I	
Green Mode Enable Debounce Time	Non-switching time, when LPC falling	tGreen-EN- Debounce	54	64	74	μs
Number of switching to enter green mode	When switching period > T _{Green-EN-Debounce}	N _{Green-EN-} Debounce		1		Cycle
Green Mode Disable Debounce Time	Enable after enter green mode, Non-switching time, when LPC falling	tGreen-DIS- Debounce	54	64	74	μs
Green Mode Section (FAN6292MX)						
Green Mode Enable Debounce Time	Non-switching time, when when LPC falling	tGreen-EN- Debounce	0.4	0.5	0.6	ms
Green Mode Disable Debounce Time	Enable after enter green mode, Non-switching time, when LPC falling	t _{Green-DIS-} Debounce	0.2	0.3	0.4	ms
Number of consecutive switching to leave green mode	Independently enable with T _{Green-DIS-Debounce} , when LPC falling	NGreen-DIS- Debounce		256		Cycles
Bleeder Section						
BLD Pin Sink Current through when bleeding ⁽⁷⁾	V _{BLD} =5 V	BLD -Sink	90			mA
Maximum Discharging Time when bleeding		t _{BLD-MAX}	275	320	365	ms
AUX Section (FAN6292BMX)						
Output undershoot detection threshold voltage		Vin-aux	4.7	4.8	4.9	V
Internal debounce time to enable I _{AUX} ⁽⁷⁾	RC filter type	T _{AUX} -			5	μS
BLD/AUX pin pull-down time		T _{AUX-ON}	44	64	84	μS
BLD/AUX pin pull down current with V _{AUX} =5V	V _{BLD} =5 V, R _{BLD} =0 Ω	laux	3.3		15	mA

ELECTRICAL CHARACTERISTICS

$V_{IN}=5$ V, LPC=1.5 V, LPC width=2 μ s at $T_{IJ}=-40\sim125$ °C, $F_{LPC}=100$ kHz, unless otherw	herwise specified.
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V_{IN} =5 V, LPC=1.5 V, LPC width=2 μ s at I_J = - I_J	Test Conditions	Symbol	Min	Тур	Max	Unit
Type-C Section				71		
Source current on CC1 pin	V _{IN} =5 V, V _{CC2} =0 V	I _{P-CC1}	304	330	356	μA
Source current on CC2 pin	V _{IN} =5 V, V _{CC1} =0 V	I _{P-CC2}	304	330	356	μA
Input impedance on CC1 pin		Z _{OPEN-CC1}	126			kΩ
Input impedance on CC2 pin		Z _{OPEN-CC2}	126			kΩ
Ra impedance detection threshold on CC1 pin	V _{IN} =5 V, V _{CC2} =0 V, Decreasing V _{CC}	1 VRA-CC1	0.75	0.80	0.85	V
Ra impedance detection threshold on CC2 pin	V _{IN} =5 V, V _{CC1} =0 V, Decreasing V _{CC}	VRA-CC2	0.75	0.80	0.85	V
Rd impedance detection threshold on CC1 pin	V _{IN} =5 V, V _{CC2} =0 V, Increasing V _{CC1}	V _{RD-CC1}	2.45	2.60	2.75	V
Rd impedance detection threshold on CC2 pin	V _{IN} =5 V, V _{CC1} =0 V, Increasing V _{CC2}	V _{RD-CC2}	2.45	2.60	2.75	V
UFP attachment debounce time	V _{IN} =5 V, V _{CC2} =0 V, Increasing V _{CC1}	tCC-Attach- debounce	100	150	200	ms
UFP detachment debounce time	V _{IN} =5 V, V _{CC2} =0 V, Decreasing V _{CC}	tCC-Detach-	10	15	20	ms
After tcc-attach-debounce until V _{BUS} =5 V ⁽⁷⁾	V _{IN} =5 V, V _{CC2} =0 V, Increasing V _{CC1}	t _{VBUS-ON}			275	ms
After detaching UFP until V _{BUS} =0 V ⁽⁷⁾	V _{IN} =5 V, V _{CC2} =0 V, Decreasing V _{CC}	tvBus-OFF			650	ms
Gate high voltage	V _{IN} =5 V	V _{NGATE}	8		10	V
Output Driver Section						
Output Voltage Low	V _{IN} =5 V, I _{GATE} =100 mA	V_{OL}		0.16	0.25	V
Output Voltage High	V _{IN} =5 V	Vон	4.5			V
Rising Time ⁽⁷⁾	V _{IN} =5 V, C _L =3300 pF, GATE=1 V ~ 4 V	t _R		20	35	ns
Falling Time ⁽⁷⁾	V _{IN} =5 V, C _L =3300 pF, GATE=4 V~ 1 V	t _F		9		ns
Propagation Delay to OUT High (LPC trigger)	V _{IN} =5 V, GATE=1 V	tPD-HIGH-LPC		44	80	ns
Propagation Delay to OUT Low (LPC trigger) ⁽⁷⁾	V _{IN} =5 V, GATE=4 V	t _{PD-LOW-LPC}		30		ns
Gate inhibit Time ⁽⁷⁾		tinhibit		1.4		μs
Gate start-up disable time	For FAN602 (FAN6292MX)	tSR-startup-dis		60		ms
Gate start-up disable time	For FAN105B (FAN6292BMX)	tSR-startup-dis	1.5	2	2.5	ms

ELECTRICAL CHARACTERISTICS

V _{IN} =5 V, LPC=1.5 V, LPC width=2 μs a	at $T_1 = -40 \sim 125 ^{\circ}$ C, F	F _{LPC} =100 kHz, unless of	otherwise specified.
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Parameter	Test Conditions	Symbol	Min	Тур	Max	Unit
Internal RES section						
Internal RES ratio	V _{IN} =5 V, Turn-ratio=15~17	K _{RES}	0.196	0.200	0.204	V/V
VIN Dropping Protection Ratio with Two Cycle	LPC width=5 μs VIN=5 V to 3.5 V	K _{VIN-DROP}	70		90	%
Debounce time for disable SR when VIN dropping protection		tsr_off	3.5	5.5	7.5	ms
Debounce time for noise immunity on VIN ⁽⁷⁾		t _{VIN-Debounce}	1	2	3	μs
LPC Section						
Linear Operation Range of LPC Pin Voltage ⁽⁷⁾	$V_{\text{IN -OFF}} < V_{\text{IN}} \le 5V$	V_{LPC}	0.4		V _{IN} -1	V
LPC Sink Current	V _{LPC} =1V	ILPC-SINK		100		nA
SR Enabled Threshold Voltage @High Line		V _{LPC-Н} IGH-Н	1.418	1.500	1.583	V
Threshold Voltage on LPC Rising Edge @High Line ⁽⁷⁾	V _{LPC-HIGH-H} *0.875 = V _{LPC-TH-H}	V _{LPC-TH-H}	1.205	1.313	1.424	٧
SR Enabled Threshold Voltage @ Low Line	V _{LPC-HIGH-L-5V} = V _{LPC-TH-L-5V} / 0.875	V _{LPC-HIGH-L-5} V	0.703	0.743	0.783	V
Threshold Voltage on LPC Rising Edge @ Low Line ⁽⁷⁾	Spec.=0.4+0.05*VIN VIN = 5V	V _{LPC-TH-L-5} V	0.63	0.650	0.67	٧
Falling Edge Threshold Voltage to trigger SR (7)		V _{LPC} -TH-TRIG		70		mV
Low to High Line Threshold Voltage on LPC pin	VIN = 5V, Spec.=(0.8+0.03*VIN)*2	V _{LINE-H-5V}	1.81	1.90	1.99	V
High to Low Line Threshold Voltage on LPC pin	VIN = 5V, Spec.=(0.75+0.03*VIN)*2	VLINE-L-5V	1.72	1.80	1.88	V
Line Change Threshold Hysteresis	VLINE-HYS-5V = VLINE-H-5V - VLINE-L-5V	VLINE-HYS-5V		0.1		V
Higher Clamp Voltage		VLPC-CLAMP-H	5.4	6.2	7.0	٧
LPC Threshold Voltage to Disable SR Gate Switching	V _{IN} = 5V LPC=3V↑	V _{LPC-DIS}	V _{IN} - 0.6			V
Enable VLPC-DIS	Increasing V _{IN}	V _{EN-LPC-DIS}	4.25	4.4	4.45	V
Disable VLPC-DIS	Decreasing V _{IN}	V _{DIS-LPC-DIS}	4.1	4.2	4.3	V
Line Change Debounce from Low Line to High Line ⁽⁷⁾	Counts for LPC falling < V _{LPC-TH-L-5V}	tLPC-LH-debounce		7		cycles
Line Change Debounce from High Line to Low Line ⁽⁷⁾	_	tLPC-HL-debounce		15		μs

ELECTRICAL CHARACTERISTICS

 V_{IN} =5 V, LPC=1.5 V, LPC width=2 μs at T_{J} = -40~125 $^{\circ}C$, F_{LPC} =100 kHz, unless otherwise specified

Parameter	Test Conditions	Symbol	Min	Тур	Max	Unit
nternal Timing Section	-					1
LPC Transfer Ratio to I _{LPC} ⁽⁷⁾		Ratio _{LPC}		1		μ A /V
V _{RES} Transfer Ratio to I _{RES} ⁽⁷⁾		Ratio _{RES}		0.445		μA/V
Ratio between V _{LPC} & V _{RES}	VIN=5V, FLPC=50 kHz, K _{RES} =0.20	Ratio _{LPC-RES}	3.15	3.37	3.59	
Minimum LPC Time to Enable the SR Gate @ High Line	V _{LPC} =3V	t _{LPC-EN-H}	80	180	280	ns
Minimum LPC Time to Enable the SR Gate @ Low Line	V _{LPC} =1.5V	tLPC-EN-L	500	600	700	ns
Minimum Gate Width	FAN6292BMX	t _{MIN}	1.9	2.2	2.5	μs
Max SR On Time ⁽⁷⁾		ton-max	20			μs
$t_{on-SR}(n+1)$ - $t_{on-SR}(n) < t_{gate-limit}$		t _{gate-limit}	350	500	650	ns
Maximum Gate Limit On-time)(7)		t _{gate-limit-max}		5		μs
Forced internal CT reset time ⁽⁷⁾		tct-reset		10		ns
Reverse Current Mode Section						•
Reverse current mode entry debounce time	V _{IN} =5 V, V _{LPC} =0 V	T _{reverse} -	350	500	650	ms
Operating current during reverse current mode	V _{IN} =5 V, V _{LPC} =0 V	OP.reverse			1.7	mA
Source current on CC1 pin during reverse current mode ⁽⁷⁾	V _{IN} =5 V, V _{LPC} =0 V	IP-CC1.reverse			10	μА
Source current on CC2 pin during reverse current mode ⁽⁷⁾	V _{IN} =5 V, V _{LPC} =0 V	IP-CC2.reverse			10	μА
AUX pin current during reverse current mode ⁽⁷⁾	VIN=5 V, VLPC=0 V	I _{BLD.reverse}			10	uA

Guaranteed by Design. Guaranteed at -5° ~ 85°C.

С S Т Υ Ρ ı C Α L Н Α R Α C Т Ε R I S Т I C

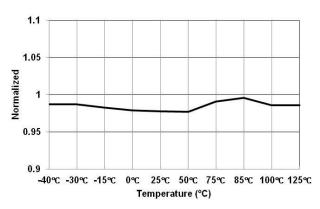


Figure 4 Turn-On Threshold Voltage
(V_{IN-ON}) vs. Temperature

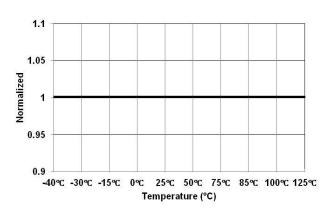


Figure 5 Turn-Off Threshold Voltage (VIN-OFF) vs. Temperature

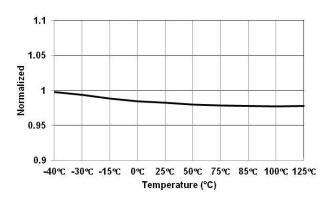


Figure 6 Minimum LPC Time to Enable the SR Gate @ Low-Line $(t_{LPC-EN-L})$ vs. Temperature

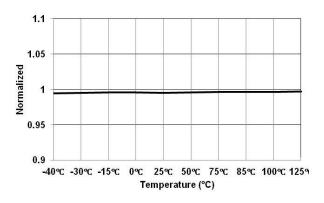


Figure 7 VIN Under-Voltage-Protection Enable (V_{IN-AUX}) vs. Temperature

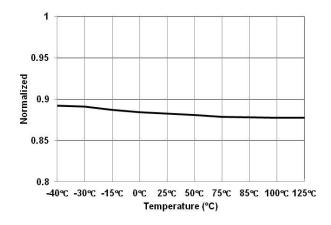


Figure 8 Minimum LPC Time to Enable the SR Gate @ High-Line ($t_{\text{LPC-EN-H}}$) vs. Temperature

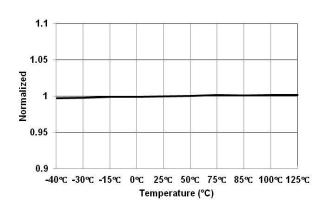
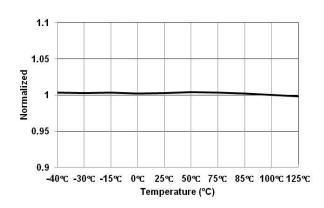


Figure 9 Ratio between V_{LPC} & V_{RES} (Ratio_{LPC-RES}) vs. Temperature

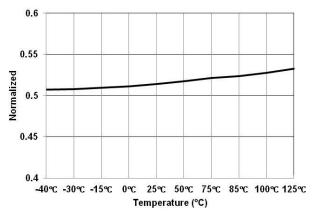
Т Υ PΙ С Α L С Н R Α C Т R - 1 Т C S Ε S



1.1
1.05
1.05
0.95
0.9
-40°C -30°C -15°C 0°C 25°C 50°C 75°C 85°C 100°C 125
Temperature (°C)

Figure 10 Source Current on CC1 Pin (IP-CC1) vs. Temperature

Figure 11 Source Current on CC2 Pin (IP-CC2) vs. Temperature



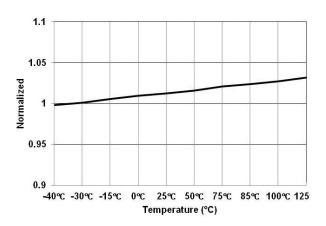


Figure 12 Operating Current during Reverse Current M o d e ($I_{\ O\ P\ .\ r\ e\ v\ e\ r\ s\ e}$) $\ v$ s . T e m p e r a t u r e

Figure 13 Gate High Voltage (Vngate) vs. Temperature

APPLICATIONS INFORMATION

N-channel MOSFET for Load Switch

FAN6292BMX/FAN6292MX implement Type-C block to enable or disable an external load switch. Internally adapted charge pump lets it control N-channel MOSFET as a load switch. It helps system be more cost competitive compared to P-channel MOSFET as a load switch. Since the minimum pumped voltage is $V_{BUS}+3~V$, it is recommended to use N-channel MOSFET supporting lower gate threshold levels.

Detail of Load Switch Control

FAN6292BMX/FAN6292MX support output current higher than 1.5 A. In order to meet Type-C specification, 330 μA is applied on CC1 pin and CC2 pin. When Rd (5.1 k Ω) is attached on either CC1 or CC2, load switch is turned-on after 150 ms debounce time. As soon as load switch is enabled, BC1.2 counter is enabled. To acknowledge detachment, it needs 15 ms (typ.) debounce time. When load switch is turned-off, bleeder is also enabled at the same time.

Green Mode Operation (for FAN6292BMX)

In order to reduce power consumption at light-load conditions with FAN105B system, FAN6292BMX in green mode will disable LPC internal detection block but SR contiously works at mini on time for FAN105B which is a pure primary side controller to normally regulate output voltage. When V_{LPC} is smaller than $V_{LPC-HIGH-L-5V}$ and maintains duration longer than $t_{Green-EN-Debounce}$, FAN6292MX enters green mode where current can be reduced to 0.9 mA (typ.). It leaves green mode when V_{LPC} is larger than $V_{LPC-HIGH-L-5V}$ and maintains duration shorter than $t_{Green-DIS-Debounce}$.

Green Mode Operation(for FAN6292MX)

In order to reduce power consumption at light-load conditions with FAN602 system, FAN6292MX enters the green mode where some internal blocks are disabled such as Synchronous Rectifier control block. Therefore, the operating current can be largely reduced. It enters Green Mode when V_{LPC} is smaller than $V_{LPC\text{-HIGH-L-5V}}$ and maintains duration longer than $t_{Green\text{-}EN\text{-}Debounce}$. It leaves green mode when V_{LPC} is larger than $V_{LPC\text{-}HIGH\text{-}L-5V}$ and maintains duration shorter than $t_{Green\text{-}DIS\text{-}Debounce}$.

Bleeder Function

When the portable device is detached, BUS voltage should be discharged to zero within a short time to meet TypeC specification. FAN6292BMX/FAN6292MX support bleeding function by turning on S1 for $T_{\rm BLD-max}$ as shown in Figure 14. The amount of bleeding current through BLD/AUX pin can be controlled by the external resistor $R_{\rm BLD}$ shown in (1).

$$I_{BLD-RType} = \frac{V_{O_MAX}}{R_{BLD} + R_{Internal}} \tag{1}$$

VIN-UVP Protection(for FAN6292BMX)

Since pure primary side controller detects and regulates output voltage only when switching, it is not easy maintaining output voltage when load suddenly increases from light load where switching frequency is slow to heavy load. Therefore, as Figure 15, FAN6292BMX automatically detects output voltage. When output undershoot is acknowledged via VIN pin, BLD/AUX pin pull-down current via S2 switch to inform undershoot status to primary controller via a photo-coupler. Since the pull-down current is limited through S2, the current will not affect to the amount of output current.

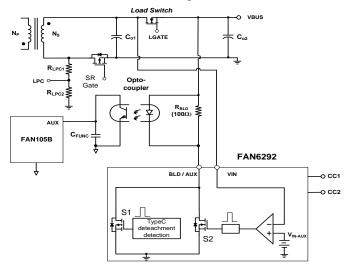


Figure 14 BLD/AUX Function Diagram

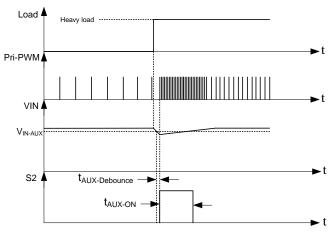


Figure 15 VIN-UVP Protection

ORDERING INFORMATION

Part Number	Operating Temperature Range	Package	Packing Method
FAN6292BMX	-40°C to +125°C	8-Lead, Small Outline Package (SOIC), JEDEC MS-012, .150-Inch Narrow Body	Tape & Reel
FAN6292MX	-40°C to +125°C	8-Lead, Small Outline Package (SOIC), JEDEC MS-012, .150-Inch Narrow Body	Tape & Reel

[†]For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D



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