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May 2016



Motion-SPM ™

FSB50825AB

Smart Power Module (SPM®)

Features

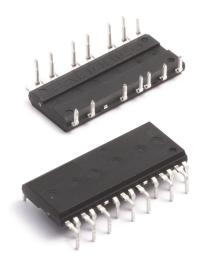
- 250V R_{DS(on)}=0.45Ω max) 3-phase FRFET inverter including high voltage integrated circuit (HVIC)
- 3 divided negative dc-link terminals for inverter current sensing applications
- · HVIC for gate driving and undervoltage protection
- · Optimized for low electromagnetic interference
- · Isolation voltage rating of 1500Vrms for 1min.
- · HVIC temperature sensing
- · Embedded bootstrap diode in the package
- RoHS compliant

Applications

· Three-phase inverter driver for small power ac motor drives

General Description

FSB50825AB is a tiny smart power module (SPM®) based on FRFET technology as a compact inverter solution for small power motor drive applications such as fan motors and water suppliers. It is composed of 6 fast-recovery MOSFET (FRFET), and 3 half-bridge HVICs for FRFET gate driving. FSB50825AB provides low electromagnetic interference (EMI) characteristics with optimized switching speed. Moreover, since it employs FRFET as a power switch, it has much better ruggedness and larger safe operation area (SOA) than that of an IGBT-based power module or one-chip solution. The package is optimized for the thermal performance and compactness for the use in the built-in motor application and any other application where the assembly space is concerned. FSB50825AB is the best solution for the compact inverter providing the energy efficiency, compactness, and low electromagnetic interference.



Absolute Maximum Ratings

Inverter Part (Each FRFET Unless Otherwise Specified)

Symbol	Parameter	Conditions		Units
V _{PN}	DC Link Input Voltage, Drain-source Voltage of each FRFET		250	V
*I _{D25}	Each FRFET Drain Current, Continuous	T _C = 25°C	3.6	Α
*I _{D80}	Each FRFET Drain Current, Continuous	T _C = 80°C	2.7	Α
*I _{DP}	Each FRFET Drain Current, Peak	T _C = 25°C, PW < 100μs	9	Α
*I _{DRMS}	Each FRFET Drain Current, Rms	T _C = 80°C, F _{PWM} < 20KHz	1.9	A _{rms}
*P _D	Maximum Power Dissipation	T _C = 25°C, For Each FRFET	14.2	W

Control Part (Each HVIC Unless Otherwise Specified)

Symbol	Parameter	Conditions	Rating	Units	
V _{CC}	Control Supply Voltage	Applied between V _{CC} and COM	20	V	
V _{BS}	High-side Bias Voltage	Applied between V_B and V_S	20	V	
V _{IN}	Input Signal Voltage	Applied between IN and COM	-0.3 ~ V _{CC} +0.3	V	

Bootstrap Diode Part (Each Bootstrap diode Unless Otherwise Specified)

Symbol	pol Parameter Conditions		Rating	Units
V _{RRMB}	Maixmum Repetitive Reverse Voltage		250	V
* I _{FB}	Forward Current	T _C = 25°C	0.5	Α
* I _{FPB}	Forward Current (Peak)	T _C = 25°C, Under 1ms Pulse Width	1.5	А

Thermal Resistance

Symbol	Parameter	Conditions	Rating	Units
$R_{ heta JC}$	Junction to Case Thermal Resistance	Each FRFET under inverter operating condition (Note 1)	8.8	°C/W

Total System

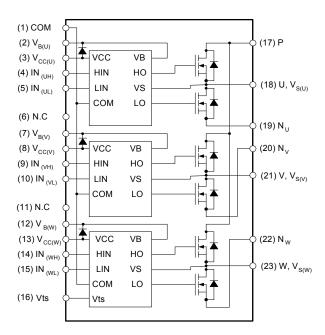
Symbol	Parameter	Conditions	Rating	Units
T _J	Operating Junction Temperature		-40 ~ 150	°C
T _{STG}	Storage Temperature		-40 ~ 125	°C
V _{ISO}	Isolation Voltage	60Hz, Sinusoidal, 1 minute, Connection pins to heatsink	1500	V_{rms}

Note:

- 1. For the measurement point of case temperature $T_{\mbox{\scriptsize C}},$ please refer to Figure 4.
- 2. Marking " * " is calculation value or design factor.

Pin descriptions

Pin Number	Pin Name	Pin Description
1	СОМ	IC Common Supply Ground
2	V _{B(U)}	Bias Voltage for U Phase High Side FRFET Driving
3	V _{CC(U)}	Bias Voltage for U Phase IC and Low Side FRFET Driving
4	IN _(UH)	Signal Input for U Phase High-side
5	IN _(UL)	Signal Input for U Phase Low-side
6	N.C	N.C
7	V _{B(V)}	Bias Voltage for V Phase High Side FRFET Driving
8	V _{CC(V)}	Bias Voltage for V Phase IC and Low Side FRFET Driving
9	IN _(VH)	Signal Input for V Phase High-side
10	IN _(VL)	Signal Input for V Phase Low-side
11	N.C	N.C
12	V _{B(W)}	Bias Voltage for W Phase High Side FRFET Driving
13	V _{CC(W)}	Bias Voltage for W Phase IC and Low Side FRFET Driving
14	IN _(WH)	Signal Input for W Phase High-side
15	IN _(WL)	Signal Input for W Phase Low-side
16	V _{ts}	Output for HVIC temperature sensing
17	Р	Positive DC–Link Input
18	U, V _{S(U)}	Output for U Phase & Bias Voltage Ground for High Side FRFET Driving
19	N _U	Negative DC–Link Input for U Phase
20	N _V	Negative DC–Link Input for V Phase
21	V, V _{S(V)}	Output for V Phase & Bias Voltage Ground for High Side FRFET Driving
22	N _W	Negative DC–Link Input for W Phase
23	W, V _{S(W)}	Output for W Phase & Bias Voltage Ground for High Side FRFET Driving



Note:

Source terminal of each low-side MOSFET is not connected to supply ground or bias voltage ground inside SPM®. External connections should be made as indicated in Figure 3

Figure 1. Pin Configuration and Internal Block Diagram (Bottom View)

Electrical Characteristics ($T_J = 25^{\circ}C$, $V_{CC} = V_{BS} = 15V$ Unless Otherwise Specified)

Inverter Part (Each FRFET Unless Otherwise Specified)

Symbol	Parameter	Conditions	Min	Тур	Max	Units
BV _{DSS}	Drain-Source Breakdown Voltage	V _{IN} = 0V, I _D = 1mA (Note 1)	250	-	-	V
I _{DSS}	Zero Gate Voltage Drain Current	V _{IN} = 0V, V _{DS} = 250V		-	1	mA
R _{DS(on)}	Static Drain-Source On-Resistance	$V_{CC} = V_{BS} = 15V, V_{IN} = 5V, I_D = 2A$	-	0.33	0.45	Ω
V _{SD}	Drain-Source Diode Forward Voltage	$V_{CC} = V_{BS} = 15V, V_{IN} = 0V, I_{D} = -2A$	-	-	1.2	٧
t _{ON}			-	950	-	ns
t _{OFF}		$V_{PN} = 150V, V_{CC} = V_{BS} = 15V, I_D = 2A$	-	520	-	ns
t _{rr}	Switching Times	V _{IN} = 0V ←5V, Inductive load L=3mH High- and low-side FRFET switching	-	140	-	ns
E _{ON}		(Note 2)	-	100	-	μЈ
E _{OFF}				10	-	μЈ
RBSOA	Reverse-bias Safe Operating Area	V_{PN} = 200V, V_{CC} = V_{BS} = 15V, I_{D} = I_{DP} , V_{DS} =BV _{DSS} , T_{J} = 150°C High- and low-side FRFET switching (Note 3)		Full	Square	

Control Part (Each HVIC Unless Otherwise Specified)

Symbol	Parameter		Conditions	Min	Тур	Max	Units
I _{QCC}	Quiescent V _{CC} Current	V _{CC} =15V, V _{IN} =0V	Applied between V _{CC} and COM	-	-	200	μΑ
I _{QBS}	Quiescent V _{BS} Current	V _{BS} =15V, V _{IN} =0V	Applied between $V_{B(U)}$ -U, $V_{B(V)}$ -V, $V_{B(W)}$ -W	-	-	100	μΑ
UV _{CCD}	Low-side Undervoltage	V _{CC} Undervoltage Protection Detection Level			8.0	9.4	V
UV _{CCR}	Protection (Figure 8)	V _{CC} Undervoltage Protection Reset Level		8.0	8.9	9.8	V
UV _{BSD}	High-side Undervoltage	V _{BS} Undervoltage F	Protection Detection Level	7.4	8.0	9.4	V
UV _{BSR}	Protection (Figure 9)	V _{BS} Undervoltage F	Protection Reset Level	8.0	8.9	9.8	V
V _{ts}	HVIC Temperature sens- ing voltage output	V _{CC} =15V, T _{HVIC} =25°C(Note 4)		600	790	980	mV
V _{IH}	ON Threshold Voltage	Logic High Level	Applied between IN and COM	-	-	2.9	V
V _{IL}	OFF Threshold Voltage	Logic Low Level	Applied between IN and COM	0.8	-	-	V

Bootstrap Diode Part (Each Bootstrap diode Unless Otherwise Specified)

Symbol	Parameter	Conditions	Min	Тур	Max	Units
V_{FB}	Forward Voltage	I _F = 0.1A, T _C = 25°C(Note 5)	-	2.5	-	V
t _{rrB}	Reverse Recovery Time	$I_F = 0.1A, T_C = 25^{\circ}C$	ı	80	-	ns

Note

- 1. BV_{DSS} is the absolute maximum voltage rating between drain and source terminal of each FRFET inside SPM[®]. V_{PN} should be sufficiently less than this value considering the effect of the stray inductance so that V_{DS} should not exceed BV_{DSS} in any case.
- 2. t_{ON} and t_{OFF} include the propagation delay time of the internal drive IC. Listed values are measured at the laboratory test condition, and they can be different according to the field applications due to the effect of different printed circuit boards and wirings. Please see Figure 6 for the switching time definition with the switching test circuit of Figure 7.
- 3. The peak current and voltage of each FRFET during the switching operation should be included in the safe operating area (SOA). Please see Figure 7 for the RBSOA test circuit that is same as the switching test circuit.

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- 4. V_{ts} is only for sensing temperature of module and cannot shutdown MOSFETs automatically.
- 5. Built in bootstrap diode includes around 15 Ω resistance characteristic. Please refer to Figure 2.

Recommended Operating Condition

Symbol	Davamatav	Conditions		I I so i 4 o		
	Parameter	Conditions	Min.	Тур.	Max.	Units
V _{PN}	Supply Voltage	Applied between P and N	-	150	200	V
V _{CC}	Control Supply Voltage	Applied between V _{CC} and COM	12	13.5	15	V
V _{BS}	High-side Bias Voltage	Applied between V _B and V _S	12	13.5	15	V
V _{IN(ON)}	Input ON Threshold Voltage	Applied between IN and COM	3.0	-	V _{CC}	V
V _{IN(OFF)}	Input OFF Threshold Voltage	Applied between in and Colvi	0	-	0.6	V
t _{dead}	Blanking Time for Preventing Arm-short	V _{CC} =V _{BS} =12 ~ 15V, T _J ≤ 150°C	1.0	-	-	μs
f _{PWM}	PWM Switching Frequency	T _J ≤ 150°C	-	15	-	kHz

Package Marking & Ordering Information

Device Marking	Device	Package	Reel Size	Packing Type	Quantity
FSB50825AB	FSB50825AB	SPM23DD-21L	-	-	15

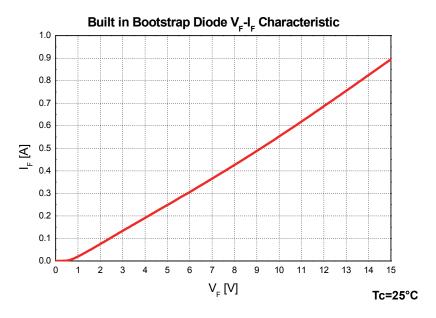
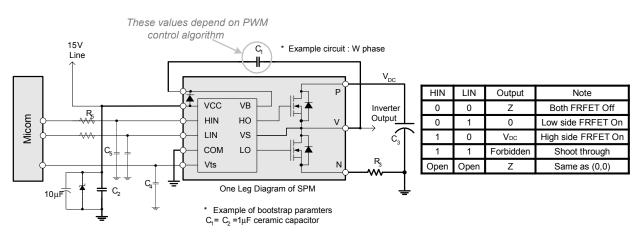


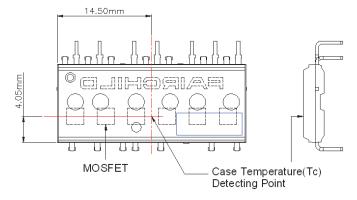
Figure 2. Built in Bootstrap Diode Characteristics(typ.)



Note:

- 1. Parameters for bootsrap circuit elements are dependent on PWM algorithm. For 15 kHz of switching frequency, typical example of parameters is shown above.
- 2. RC coupling(R₅ and C₅) and C₄ at each input of SPM[®] and Micom (indicated as dotted lines) may be used to prevent improper signal due to surge noise.
- Bold lines should be short and thick in PCB pattern to have small stray inductance of circuit, which results in the reduction of surge voltage. Bypass capacitors such as C₁, C₂ and C₃ should have good high-frequencycharacteristics to absorb high-frequency ripple current.

Figure 3. Recommended CPU Interface and Bootstrap Circuit with Parameters



Note:

Attach the thermocouple on top of the heatsink-side of SPM® (between SPM® and heatsink if applied) to get the correct temperature measurement.

Figure 4. Case Temperature Measurement

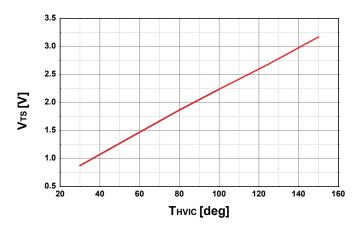
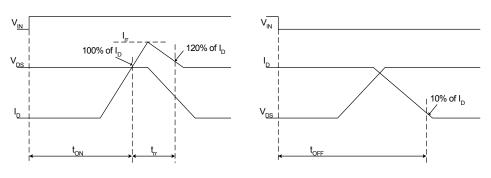


Figure 5. Temperature profile of Vts(typ.)



(a) Turn-on (b) Turn-off Figure 6. Switching Time Definition

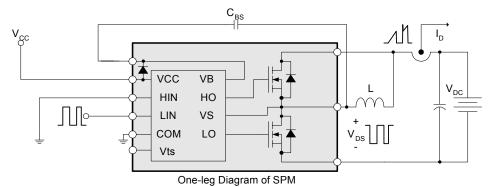


Figure 7. Switching and RBSOA(Single-pulse) Test Circuit (Low-side)

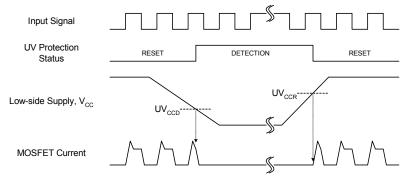


Figure 8. Undervoltage Protection (Low-side)

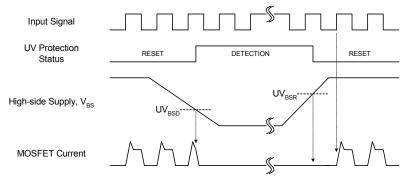
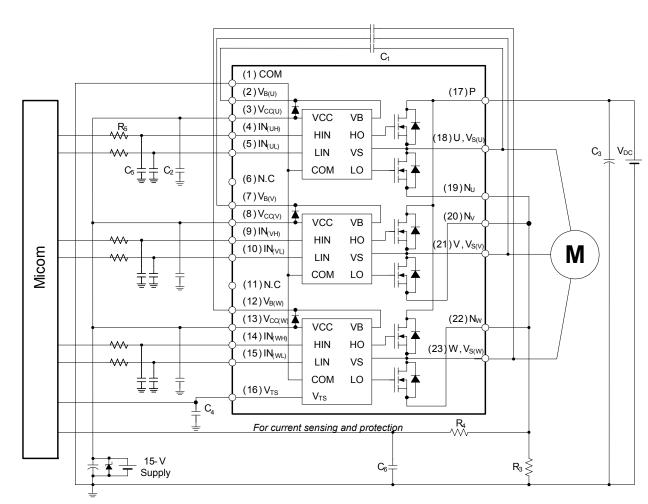


Figure 9. Undervoltage Protection (High-side)

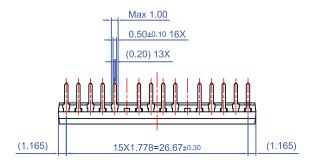


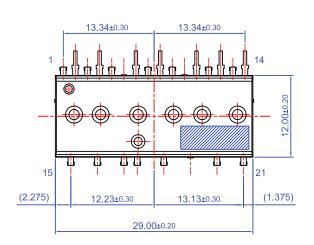
Note:

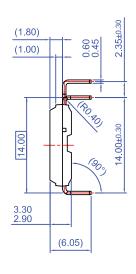
- 1. About pin position, refer to Figure 2.
- $2. \ RC \ coupling (R_5 \ and \ C_5, \ R_4 \ and \ C_6) \ and \ C_4 \ at \ each \ input \ of \ SPM^{\$} \ and \ Micom \ are \ useful \ to \ prevent \ improper \ input \ signal \ caused \ by \ surge \ noise.$
- 3. The voltage drop across R₃ affects the low side switching performance and the bootstrap characteristics since it is placed between COM and the source terminal of the low side MOSFET. For this reason, the voltage drop across R₃ should be less than 1V in the steady-state.
- 4. Ground wires and output terminals, should be thick and short in order to avoid surge voltage and malfunction of HVIC.
- 5. All the filter capacitors should be connected close to SPM®, and they should have good characteristics for rejecting high-frequency ripple current.

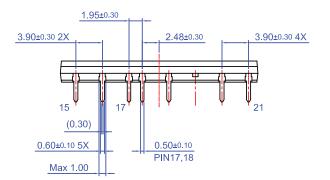
Figure 10. Example of Application Circuit

Detailed Package Outline Drawings









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Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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