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October 2013

FDPC8016S

PowerTrench® Power Clip 25V Asymmetric Dual N-Channel MOSFET

Features

Q1: N-Channel

- Max $r_{DS(on)} = 3.8 \text{ m}\Omega$ at $V_{GS} = 10 \text{ V}$, $I_D = 20 \text{ A}$
- Max $r_{DS(on)} = 4.7 \text{ m}\Omega$ at $V_{GS} = 4.5 \text{ V}$, $I_D = 18 \text{ A}$

Q2: N-Channel

- Max $r_{DS(on)} = 1.4 \text{ m}\Omega$ at $V_{GS} = 10 \text{ V}$, $I_D = 35 \text{ A}$
- Max $r_{DS(on)} = 1.7 \text{ m}\Omega$ at $V_{GS} = 4.5 \text{ V}$, $I_D = 32 \text{ A}$
- Low inductance packaging shortens rise/fall times, resulting in lower switching losses
- MOSFET integration enables optimum layout for lower circuit inductance and reduced switch node ringing

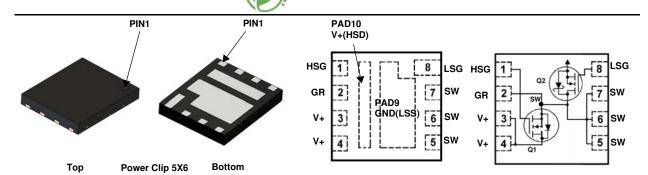
■ RoHS Compliant

General Description

This device includes two specialized N-Channel MOSFETs in a dual package. The switch node has been internally connected to enable easy placement and routing of synchronous buck converters. The control MOSFET (Q1) and synchronous SyncFETTM (Q2) have been designed to provide optimal power efficiency.

Applications

- Computing
- Communications
- General Purpose Point of Load



Pin	Name	Description	Pin	Name	Description	Pin	Name	Description
1	HSG	High Side Gate	3,4,10	V+(HSD)	High Side Drain	8	LSG	Low Side Gate
2	GR	Gate Return	5,6,7	SW	Switching Node, Low Side Drain	9	GND(LSS)	Low Side Source

MOSFET Maximum Ratings T_A = 25 °C unless otherwise noted

Symbol	Parameter	Parameter			
V_{DS}	Drain to Source Voltage		25 ^{Note5}	25	V
V_{GS}	Gate to Source Voltage		±12	±12	V
	Drain Current -Continuous	T _C = 25 °C	60	100	
I _D	-Continuous	T _A = 25 °C	20 ^{Note1a}	35 ^{Note1b}	Α
	-Pulsed T _A = 25 °C		75	140	
E _{AS}	Single Pulse Avalanche Energy	(Note 3)	73	216	mJ
Power Dissipation for Single Operation		T _C = 25 °C	21	42	W
P_{D}	Power Dissipation for Single Operation	T _A = 25 °C	2.1 ^{Note1a}	2.3 Note1b	VV
T _J , T _{STG}	Operating and Storage Junction Temperature Range	-55 to	+150	°C	

Thermal Characteristics

R_{\thetaJC}	Thermal Resistance, Junction to Case	6.0	3.0	
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	60 ^{Note1a}	55 ^{Note1b}	°C/W
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	130 ^{Note1c}	120 ^{Note1d}	

Package Marking and Ordering Information

Device Marking	Device	Package	Reel Size	Tape Width	Quantity
05OD/15OD	FDPC8016S	Power Clip 56	13 "	12 mm	3000 units

Electrical Characteristics T_J = 25 °C unless otherwise noted Symbol Parameter Test Conditi

Symbol	Parameter	lest Conditions	туре	WIIN	тур	wax	Units
Off Chara	cteristics						
BV _{DSS}	Drain to Source Breakdown Voltage	$I_D = 250 \mu A, V_{GS} = 0 V$ $I_D = 1 mA, V_{GS} = 0 V$	Q1 Q2	25 25			٧
$\frac{\Delta BV_{DSS}}{\Delta T_{J}}$	Breakdown Voltage Temperature Coefficient	I_D = 250 μ A, referenced to 25 °C I_D = 10 mA, referenced to 25 °C	Q1 Q2		24 28		mV/°C
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 20 V, V _{GS} = 0 V V _{DS} = 20 V, V _{GS} = 0 V	Q1 Q2			1 500	μ Α μ Α
I _{GSS}	Gate to Source Leakage Current	V _{GS} = 12 V/-8 V, V _{DS} = 0 V V _{GS} = 12 V/-8 V, V _{DS} = 0 V	Q1 Q2			±100 ±100	nA nA

On Characteristics

V _{GS(th)}	Gate to Source Threshold Voltage	$V_{GS} = V_{DS}, \ I_D = 250 \ \mu A$ $V_{GS} = V_{DS}, \ I_D = 1 \ mA$	Q1 Q2	0.8 1.1	1.3 1.5	2.5 2.5	V	
$\frac{\Delta V_{GS(th)}}{\Delta T_J}$	Gate to Source Threshold Voltage Temperature Coefficient	I_D = 250 μ A, referenced to 25 °C I_D = 10 mA, referenced to 25 °C	Q1 Q2		-4 -3		mV/°C	
_	Drain to Source On Resistance	$V_{GS} = 10V$, $I_D = 20$ A $V_{GS} = 4.5$ V, $I_D = 18$ A $V_{GS} = 10$ V, $I_D = 20$ A, $T_J = 125$ °C	Q1		2.8 3.4 3.9	3.8 4.7 5.3	0	
r _{DS(on)}	Drain to Source On Resistance	V_{GS} = 10V, I_D = 35 A V_{GS} = 4.5 V, I_D = 32 A V_{GS} = 10 V, I_D = 35 A , T_J =125 °C	Q2		1.1 1.3 1.5	1.4 1.7 1.9	mΩ	
9 _{FS}	Forward Transconductance	$V_{DS} = 5 \text{ V}, I_{D} = 20 \text{ A}$ $V_{DS} = 5 \text{ V}, I_{D} = 35 \text{ A}$	Q1 Q2		182 241		S	

Dynamic Characteristics

C _{iss}	Input Capacitance	Q1:	Q1 Q2		1695 4715	2375 6600	pF
C _{oss}	Output Capacitance	$V_{DS} = 13 \text{ V}, V_{GS} = 0 \text{ V}, f = 1 \text{ MHZ}$ $Q2:$	Q1 Q2		495 1195	710 1675	pF
C _{rss}	Reverse Transfer Capacitance	$V_{DS} = 13 \text{ V}, V_{GS} = 0 \text{ V}, f = 1 \text{ MHZ}$	Q1 Q2		54 159	100 290	pF
R _g	Gate Resistance		Q1 Q2	0.1 0.1	0.4 0.5	1.2 1.5	Ω

Switching Characteristics

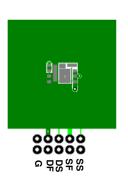
t _{d(on)}	Turn-On Delay Time			Q1 Q2	8 13	16 24	ns
t _r	Rise Time		Q1: $V_{DD} = 13 \text{ V}, I_D = 20 \text{ A}, R_{GEN} = 6 \Omega$		2 4	10 10	ns
t _{d(off)}	Turn-Off Delay Time	Q2: Vpp = 13 V lp = 35	5 A BOEN = 6 O	Q1 Q2	24 38	38 61	ns
t _f	Fall Time	V_{DD} = 13 V, I_D = 35 A, R_{GEN} = 6 Ω		Q1 Q2	2 3	10 10	ns
Qg	Total Gate Charge	V _{GS} = 0 V to 10 V	Q1	Q1 Q2	25 67	35 94	nC
Qg	Total Gate Charge	V _{GS} = 0 V to 4.5 V	10.14	Q1 Q2	11 31	16 44	nC
Q _{gs}	Gate to Source Gate Charge		Q2 V _{DD} = 13 V, I _D	Q1 Q2	3.4 10		nC
Q _{gd}	Gate to Drain "Miller" Charge		= 35 A	Q1 Q2	2.2 6.3		nC

Electrical Characteristics T_J = 25 °C unless otherwise noted

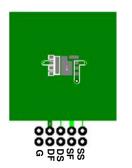
Symbol	Parameter	lest Conditions	туре	Win	тур	wax	Units		
Drain-Source Diode Characteristics									
V_{SD}	Source to Drain Diode Forward Voltage	$V_{GS} = 0 \text{ V}, I_S = 20 \text{ A}$ (Note 2) $V_{GS} = 0 \text{ V}, I_S = 35 \text{ A}$ (Note 2)	Q1		8.0	1.2	V		
▼SD	Cource to Brain Blode I of Ward Voltage	$V_{GS} = 0 \text{ V}, I_S = 35 \text{ A}$ (Note 2)	Q2		8.0	1.2	V		
+	Reverse Recovery Time	Q1	Q1		25	40	ns		
чrr	neverse necovery fillie	$I_F = 20 \text{ A}, \text{ di/dt} = 100 \text{ A/}\mu\text{s}$	Q2		33	53	115		
0	Reverse Recovery Charge	Q2	Q1		10	20	nC		
Q _{rr}	neverse necovery Charge	$I_F = 35 \text{ A}, \text{ di/dt} = 200 \text{ A/}\mu\text{s}$	Q2		31	50	iiC		

Notes:

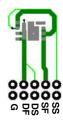
1. $R_{\theta,LA}$ is determined with the device mounted on a 1 in² pad 2 oz copper pad on a 1.5 x 1.5 in. board of FR-4 material. $R_{\theta,LC}$ is guaranteed by design while $R_{\theta,CA}$ is determined by the user's board design.



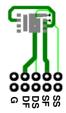
a. 60 °C/W when mounted on a 1 in² pad of 2 oz copper



b. 55 °C/W when mounted on a 1 in² pad of 2 oz copper



c. 130 °C/W when mounted on a minimum pad of 2 oz copper



d. 120 °C/W when mounted on a minimum pad of 2 oz copper

- 2 Pulse Test: Pulse Width < 300 μ s, Duty cycle < 2.0%.
- 3. Q1 :E_{AS} of 73 mJ is based on starting $T_J = 25$ °C; N-ch: L = 3 mH, $I_{AS} = 7$ A, $V_{DD} = 30$ V, $V_{GS} = 10$ V. 100% test at L = 0.1 mH, $I_{AS} = 24$ A. Q2: E_{AS} of 216 mJ is based on starting $T_J = 25$ °C; N-ch: L = 3 mH, $I_{AS} = 12$ A, $V_{DD} = 25$ V, $V_{GS} = 10$ V. 100% test at L = 0.1 mH, $I_{AS} = 39$ A.
- 4. Pulsed Id limited by junction temperature, td<=10 us. Please refer to SOA curve for more details.
- 5. The continuous V_{DS} rating is 25 V; However, a pulse of 30 V peak voltage for no longer than 100 ns duration at 600 KHz frequency can be applied.

Typical Characteristics (Q1 N-Channel) T_J = 25°C unless otherwise noted

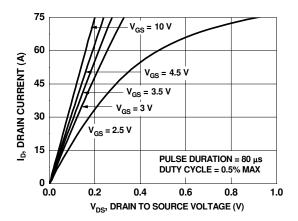


Figure 1. On Region Characteristics

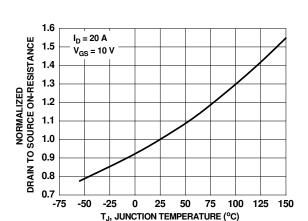


Figure 3. Normalized On Resistance vs. Junction Temperature

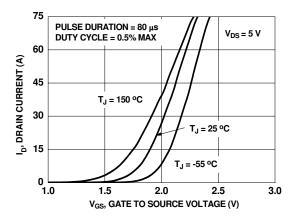


Figure 5. Transfer Characteristics

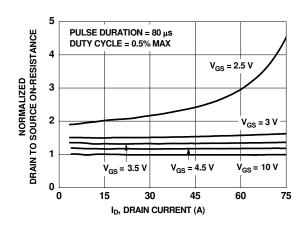


Figure 2. Normalized On-Resistance vs. Drain Current and Gate Voltage

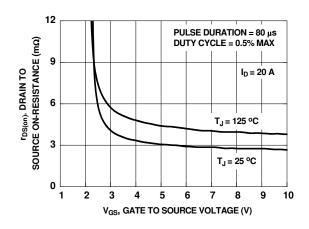


Figure 4. On-Resistance vs. Gate to Source Voltage

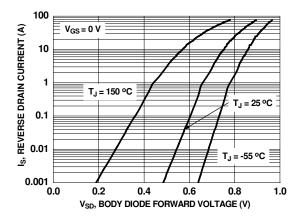


Figure 6. Source to Drain Diode Forward Voltage vs. Source Current

Typical Characteristics (Q1 N-Channel) T_J = 25°C unless otherwise noted

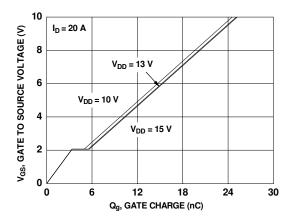


Figure 7. Gate Charge Characteristics

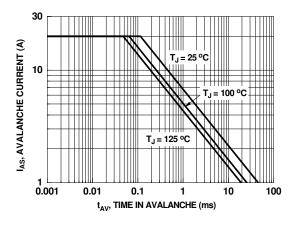


Figure 9. Unclamped Inductive Switching Capability

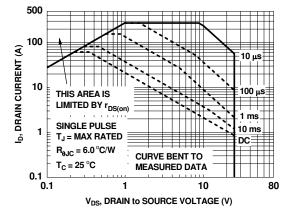


Figure 11. Forward Bias Safe Operating Area

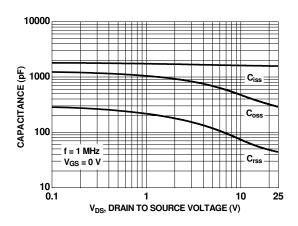


Figure 8. Capacitance vs. Drain to Source Voltage

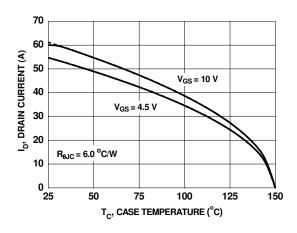


Figure 10. Maximum Continuous Drain Current vs. Case Temperature

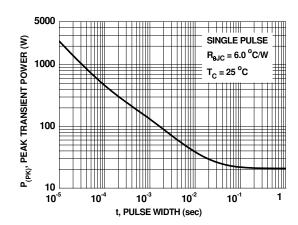


Figure 12. Single Pulse Maximum Power Dissipation

Typical Characteristics (Q1 N-Channel) $T_J = 25$ °C unless otherwise noted

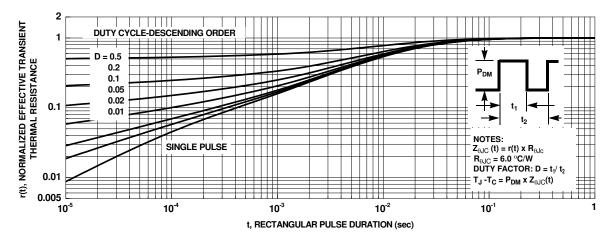


Figure 13. Junction-to-Case Transient Thermal Response Curve

Typical Characteristics (Q2 N-Channel) T_J = 25 °C unless otherwise noted

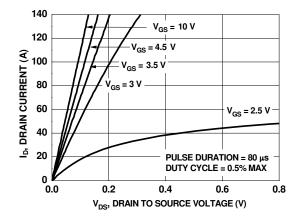


Figure 14. On- Region Characteristics

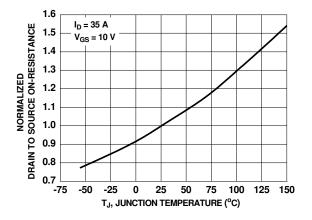


Figure 16. Normalized On-Resistance vs. Junction Temperature

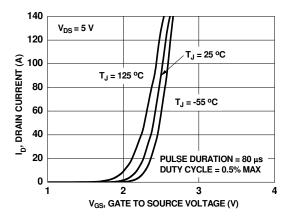


Figure 18. Transfer Characteristics

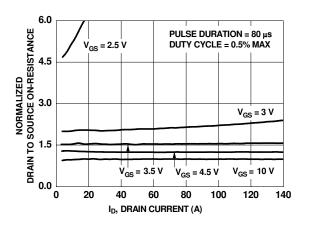


Figure 15. Normalized on-Resistance vs. Drain Current and Gate Voltage

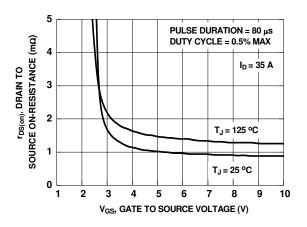


Figure 17. On-Resistance vs. Gate to Source Voltage

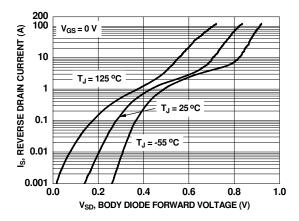


Figure 19. Source to Drain Diode Forward Voltage vs. Source Current

Typical Characteristics (Q2 N-Channel) T_J = 25°C unless otherwise noted

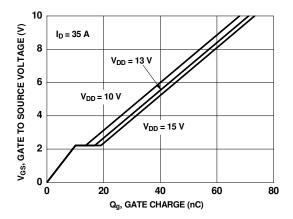


Figure 20. Gate Charge Characteristics

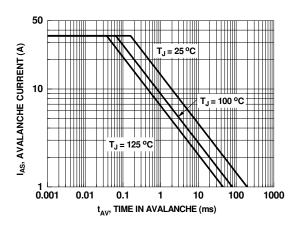


Figure 22. Unclamped Inductive Switching Capability

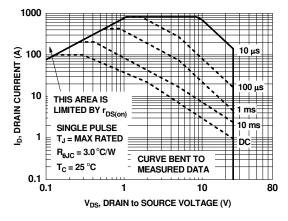


Figure 24. Forward Bias Safe Operating Area

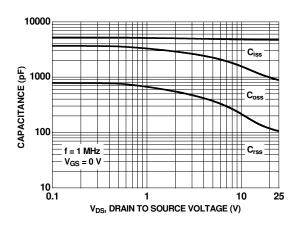


Figure 21. Capacitance vs. Drain to Source Voltage

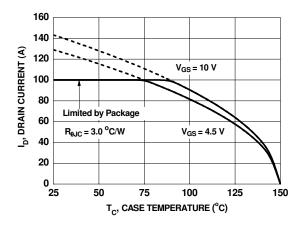


Figure 23. Maximum Continuous Drain Current vs. Case Temperature

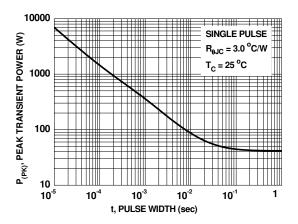


Figure 25. Single Pulse Maximum Power Dissipation

Typical Characteristics (Q2 N-Channel) $T_J = 25$ °C unless otherwise noted

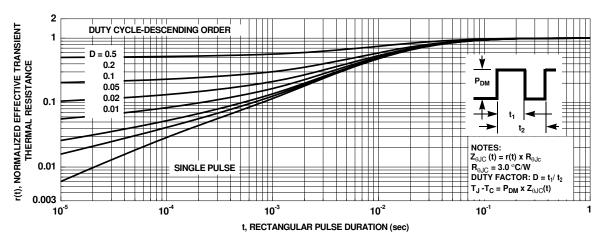


Figure 26. Junction-to-Case Transient Thermal Response Curve

Typical Characteristics (continued)

SyncFETTM Schottky body diode Characteristics

Fairchild's SyncFETTM process embeds a Schottky diode in parallel with PowerTrench[®] MOSFET. This diode exhibits similar characteristics to a discrete external Schottky diode in parallel with a MOSFET. Figure 27 shows the reverses recovery characteristic of the FDPC8016S.

Schottky barrier diodes exhibit significant leakage at high temperature and high reverse voltage. This will increase the power in the device.

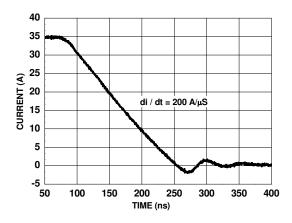


Figure 27. FDPC8016S SyncFETTM Body Diode Reverse Recovery Characteristic

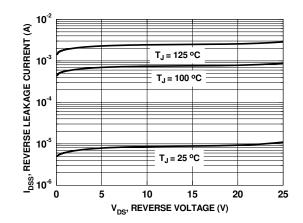
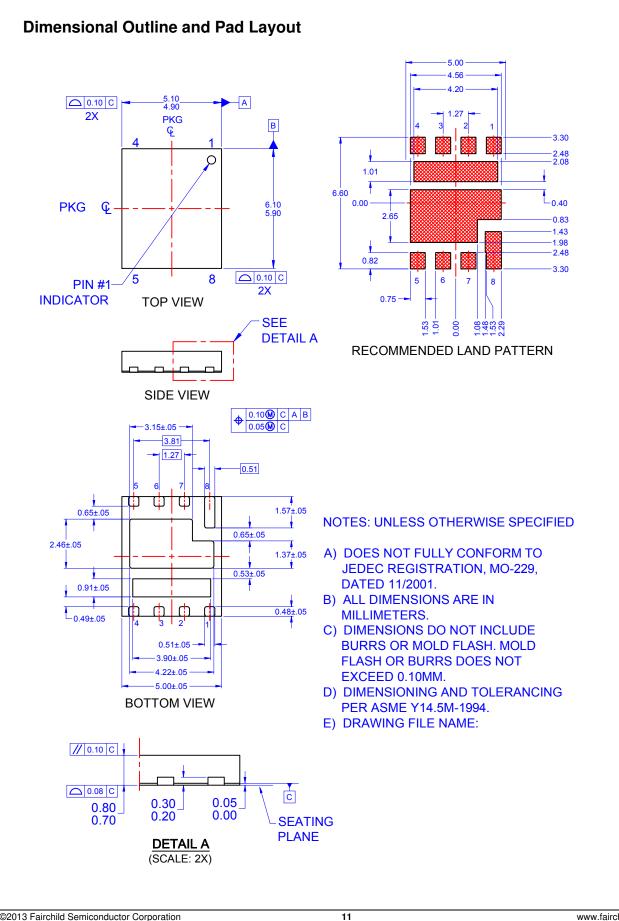


Figure 28. SyncFETTM Body Diode Reverse Leakage vs. Drain-source Voltage







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No Identification Needed Full Production		Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve the design.
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