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# FDMC7660S

## N-Channel Power Trench® SyncFET™

30 V, 20 A, 2.2 mΩ

### Features

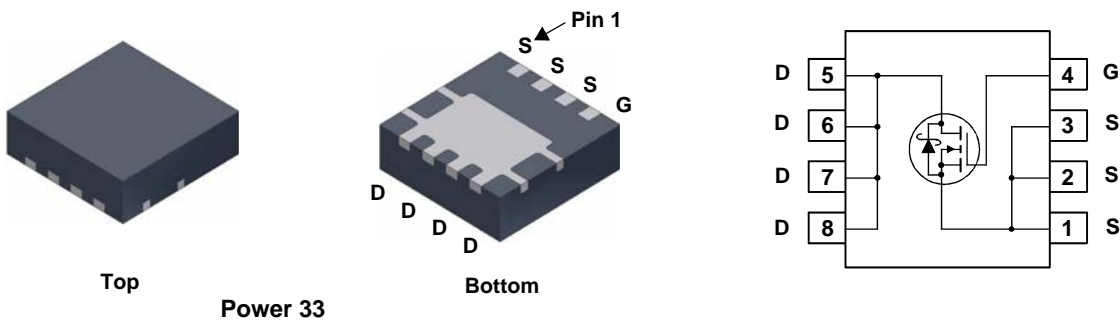
- Max  $r_{DS(on)}$  = 2.2 mΩ at  $V_{GS} = 10$  V,  $I_D = 20$  A
- Max  $r_{DS(on)}$  = 2.95 mΩ at  $V_{GS} = 4.5$  V,  $I_D = 18$  A
- High performance technology for extremely low  $r_{DS(on)}$
- Termination is Lead-free and RoHS Compliant

### General Description

The FDMC7660S has been designed to minimize losses in power conversion applications. Advancements in both silicon and package technologies have been combined to offer the lowest  $r_{DS(on)}$  while maintaining excellent switching performance. This device has the added benefit of an efficient monolithic Schottky body diode.

### Applications

- Synchronous Rectifier for DC/DC Converters
- Notebook Vcore/GPU low side switch
- Networking Point of Load low side switch
- Telecom secondary side rectification



### MOSFET Maximum Ratings $T_A = 25$ °C unless otherwise noted

| Symbol         | Parameter   | Rated       | Units |
|----------------|---|-------------|-------|
| $V_{DS}$       | Drain to Source Voltage                                   | 30          | V     |
| $V_{GS}$       | Gate to Source Voltage (Note 4)                           | ±20         | V     |
| $I_D$          | Drain Current -Continuous (Package limited) $T_C = 25$ °C | 40          | A     |
|                | -Continuous (Silicon limited) $T_C = 25$ °C               | 100         |       |
|                | -Continuous $T_A = 25$ °C (Note 1a)                       | 20          |       |
|                | -Pulsed   | 200         |       |
| $E_{AS}$       | Single Pulse Avalanche Energy (Note 3)                    | 128         | mJ    |
| $P_D$          | Power Dissipation   | 41          | W     |
|                | Power Dissipation (Note 1a)                               | 2.3         |       |
| $T_J, T_{STG}$ | Operating and Storage Junction Temperature Range          | -55 to +150 | °C    |

### Thermal Characteristics

|                 |   |    |      |
|-----------------|---|----|------|
| $R_{\theta JC}$ | Thermal Resistance, Junction to Case              | 3  | °C/W |
| $R_{\theta JA}$ | Thermal Resistance, Junction to Ambient (Note 1a) | 53 |      |

### Package Marking and Ordering Information

| Device Marking | Device    | Package  | Reel Size | Tape Width | Quantity   |
|----------------|-----------|----------|-----------|------------|------------|
| FDMC7660S      | FDMC7660S | Power 33 | 13 "      | 12 mm      | 3000 units |

**Electrical Characteristics**  $T_J = 25^\circ\text{C}$  unless otherwise noted

| Symbol | Parameter | Test Conditions | Min | Typ | Max | Units |
|--------|-----------|-----------------|-----|-----|-----|-------|
|--------|-----------|-----------------|-----|-----|-----|-------|

**Off Characteristics**

|                                      |   |  |    |    |     |                      |
|--------------------------------------|---|--|----|----|-----|----------------------|
| $BV_{DSS}$                           | Drain to Source Breakdown Voltage         | $I_D = 1\text{ mA}, V_{GS} = 0\text{ V}$               | 30 |    |     | V                    |
| $\frac{\Delta BV_{DSS}}{\Delta T_J}$ | Breakdown Voltage Temperature Coefficient | $I_D = 1\text{ mA}$ , referenced to $25^\circ\text{C}$ |    | 13 |     | mV/ $^\circ\text{C}$ |
| $I_{DSS}$                            | Zero Gate Voltage Drain Current           | $V_{DS} = 24\text{ V}, V_{GS} = 0\text{ V}$            |    |    | 500 | $\mu\text{A}$        |
| $I_{GSS}$                            | Gate to Source Leakage Current            | $V_{GS} = 20\text{ V}, V_{DS} = 0\text{ V}$            |    |    | 100 | nA                   |

**On Characteristics**

|  |  |  |     |     |      |                      |
|--|--|--|-----|-----|------|----------------------|
| $V_{GS(th)}$                           | Gate to Source Threshold Voltage                         | $V_{GS} = V_{DS}, I_D = 1\text{ mA}$                               | 1.2 | 1.6 | 2.5  | V                    |
| $\frac{\Delta V_{GS(th)}}{\Delta T_J}$ | Gate to Source Threshold Voltage Temperature Coefficient | $I_D = 1\text{ mA}$ , referenced to $25^\circ\text{C}$             |     | -3  |      | mV/ $^\circ\text{C}$ |
| $r_{DS(on)}$                           | Static Drain to Source On Resistance                     | $V_{GS} = 10\text{ V}, I_D = 20\text{ A}$                          |     | 1.7 | 2.2  | m $\Omega$           |
|  |  | $V_{GS} = 4.5\text{ V}, I_D = 18\text{ A}$                         |     | 2.5 | 2.95 |                      |
|  |  | $V_{GS} = 10\text{ V}, I_D = 20\text{ A}, T_J = 125^\circ\text{C}$ |     | 2.2 | 3.1  |                      |
| $g_{FS}$                               | Forward Transconductance                                 | $V_{DD} = 5\text{ V}, I_D = 20\text{ A}$                           |     | 129 |      | S                    |

**Dynamic Characteristics**

|           |                              |  |     |      |      |          |
|-----------|------------------------------|--|-----|------|------|----------|
| $C_{iss}$ | Input Capacitance            | $V_{DS} = 15\text{ V}, V_{GS} = 0\text{ V},$<br>$f = 1\text{ MHz}$ |     | 3250 | 4325 | pF       |
| $C_{oss}$ | Output Capacitance           |  |     | 1260 | 1680 | pF       |
| $C_{rss}$ | Reverse Transfer Capacitance |  |     | 105  | 160  | pF       |
| $R_g$     | Gate Resistance              |  | 0.1 | 0.8  | 1.6  | $\Omega$ |

**Switching Characteristics**

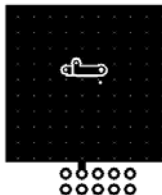
|              |                               |   |                                      |   |    |    |
|--------------|-------------------------------|---|--------------------------------------|---|----|----|
| $t_{d(on)}$  | Turn-On Delay Time            | $V_{DD} = 15\text{ V}, I_D = 20\text{ A},$<br>$V_{GS} = 10\text{ V}, R_{GEN} = 6\ \Omega$ |                                      | 14  | 25 | ns |
| $t_r$        | Rise Time                     |   |                                      | 5   | 10 | ns |
| $t_{d(off)}$ | Turn-Off Delay Time           |   |                                      | 34  | 54 | ns |
| $t_f$        | Fall Time                     |   |                                      | 3.9   | 10 | ns |
| $Q_{g(TOT)}$ | Total Gate Charge             |   | $V_{GS} = 0\text{ V to }10\text{ V}$ | $V_{DD} = 15\text{ V}$<br>$I_D = 20\text{ A}$ | 47 | 66 |
|              | Total Gate Charge             | $V_{GS} = 0\text{ V to }4.5\text{ V}$   | 21                                   |   | 29 | nC |
| $Q_{gs}$     | Total Gate Charge             |   | 9.5                                  |   |    | nC |
| $Q_{gd}$     | Gate to Drain "Miller" Charge |   | 5                                    |   |    | nC |

**Drain-Source Diode Characteristics**

|          |                                       |   |  |     |     |    |
|----------|---------------------------------------|---|--|-----|-----|----|
| $V_{SD}$ | Source to Drain Diode Forward Voltage | $V_{GS} = 0\text{ V}, I_S = 20\text{ A}$ (Note 2)     |  | 0.8 | 1.2 | V  |
|          |                                       | $V_{GS} = 0\text{ V}, I_S = 1.9\text{ A}$ (Note 2)    |  | 0.4 | 0.7 |    |
| $t_{rr}$ | Reverse Recovery Time                 | $I_F = 20\text{ A}, di/dt = 300\text{ A}/\mu\text{s}$ |  | 31  | 50  | ns |
| $Q_{rr}$ | Reverse Recovery Charge               |   |  | 39  | 62  | nC |

## NOTES:

1.  $R_{\theta JA}$  is determined with the device mounted on a  $1\text{ in}^2$  pad 2 oz copper pad on a  $1.5 \times 1.5\text{ in.}$  board of FR-4 material.  $R_{\theta JC}$  is guaranteed by design while  $R_{\theta CA}$  is determined by the user's board design.



a.  $53^\circ\text{C}/\text{W}$  when mounted on a  $1\text{ in}^2$  pad of 2 oz copper



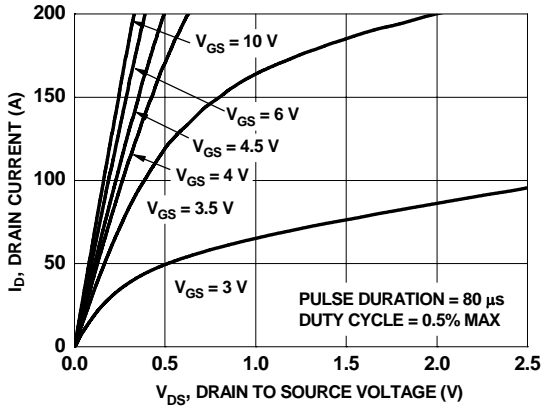
b.  $125^\circ\text{C}/\text{W}$  when mounted on a minimum pad of 2 oz copper

2. Pulse Test: Pulse Width <  $300\ \mu\text{s}$ , Duty cycle < 2.0 %.

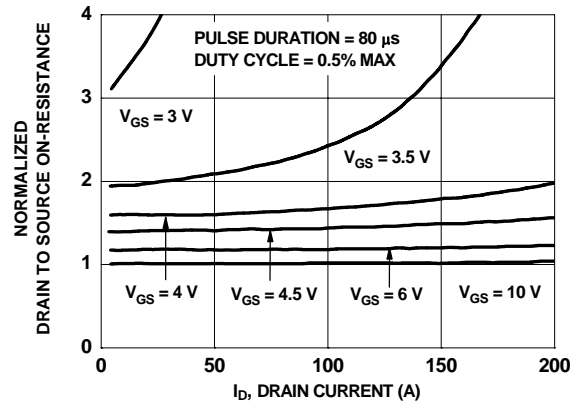
3. Starting  $T_J = 25^\circ\text{C}$ ; N-ch:  $L = 1\text{ mH}, I_{AS} = 16\text{ A}, V_{DD} = 27\text{ V}, V_{GS} = 10\text{ V}$ .

4. As an N-ch device, the negative Vgs rating is for low duty cycle pulse occurrence only. No continuous rating is implied.

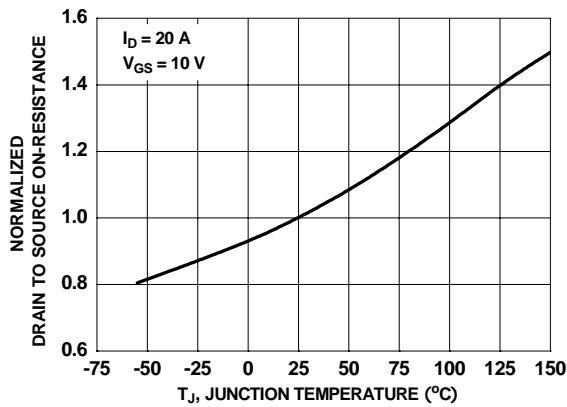
**Typical Characteristics**  $T_J = 25\text{ }^\circ\text{C}$  unless otherwise noted



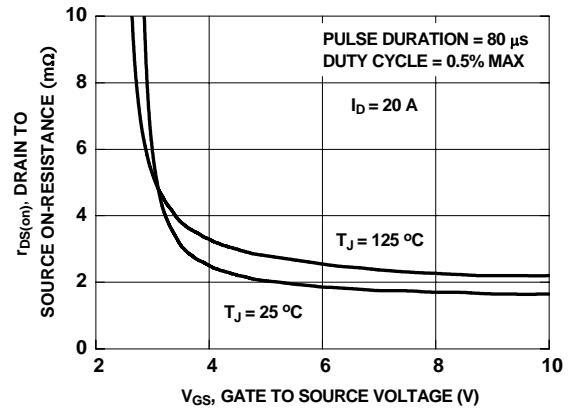
**Figure 1. On-Region Characteristics**



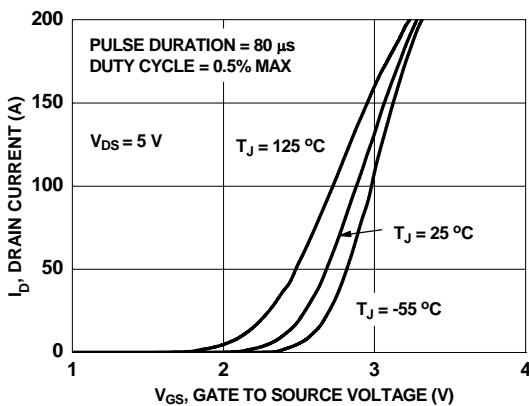
**Figure 2. Normalized On-Resistance vs Drain Current and Gate Voltage**



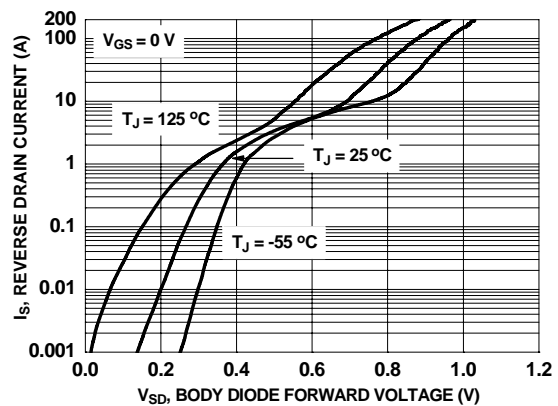
**Figure 3. Normalized On-Resistance vs Junction Temperature**



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

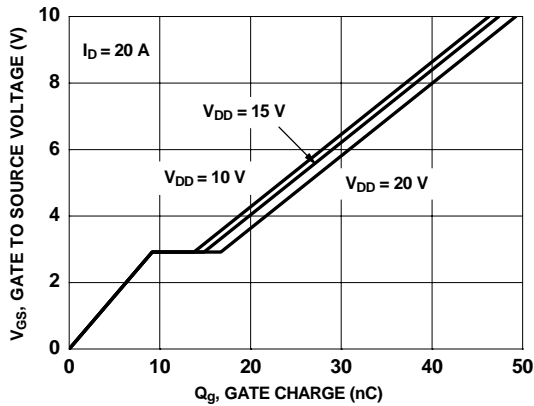


**Figure 5. Transfer Characteristics**

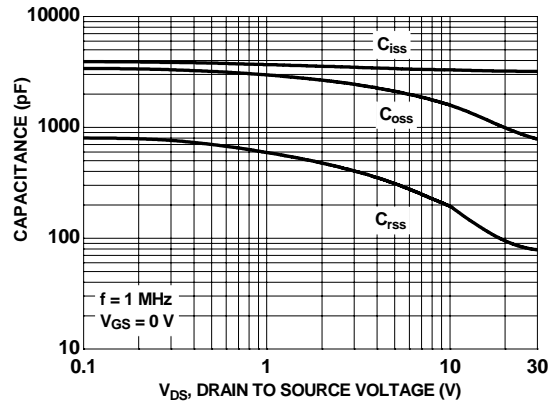


**Figure 6. Source to Drain Diode Forward Voltage vs Source Current**

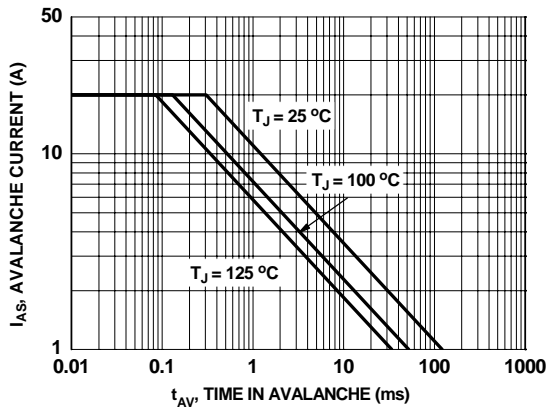
**Typical Characteristics**  $T_J = 25\text{ }^\circ\text{C}$  unless otherwise noted



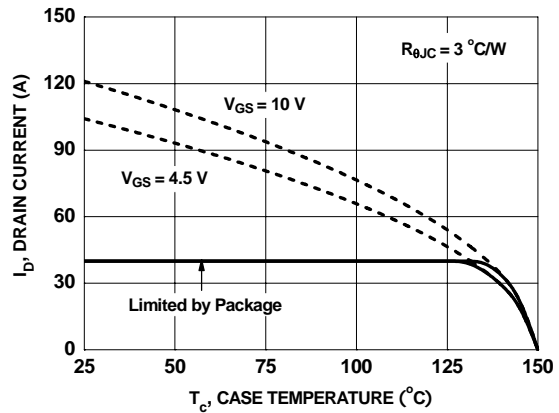
**Figure 7. Gate Charge Characteristics**



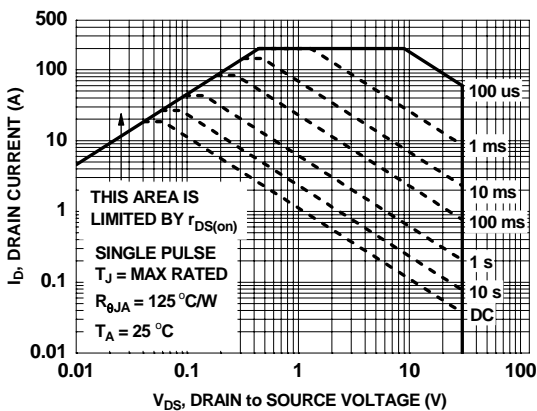
**Figure 8. Capacitance vs Drain to Source Voltage**



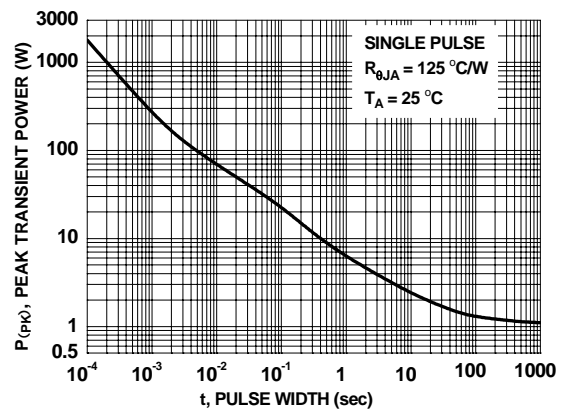
**Figure 9. Unclamped Inductive Switching Capability**



**Figure 10. Maximum Continuous Drain Current vs Ambient Temperature**

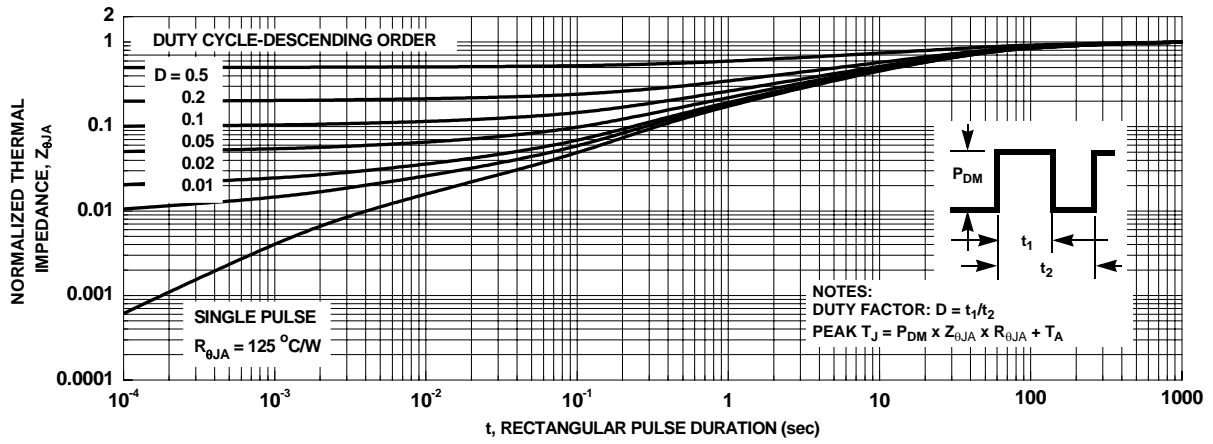


**Figure 11. Forward Bias Safe Operating Area**



**Figure 12. Single Pulse Maximum Power Dissipation**

**Typical Characteristics**  $T_J = 25\text{ }^\circ\text{C}$  unless otherwise noted



**Figure 13. Junction-to-Ambient Transient Thermal Response Curve**

## Typical Characteristics (continued)

### SyncFET Schottky body diode Characteristics

Fairchild's SyncFET 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 reverse recovery characteristic of the FDMC7660S.

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

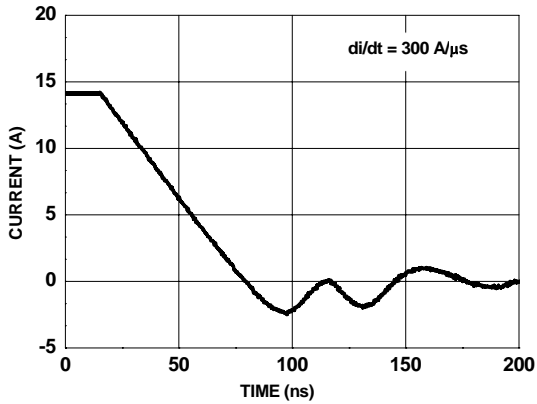


Figure 14. FDMC7660S SyncFET body diode reverse recovery characteristic

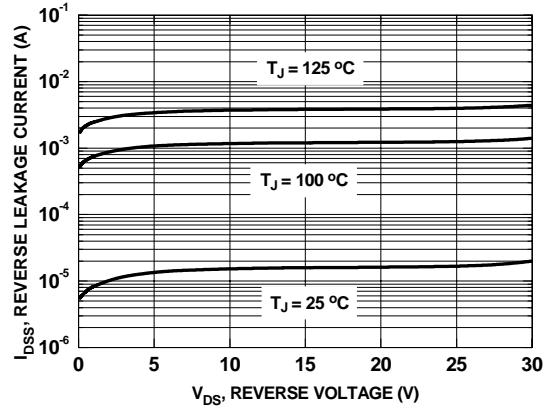
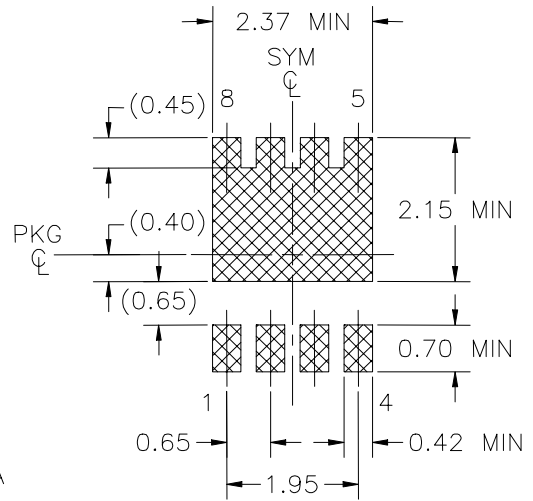
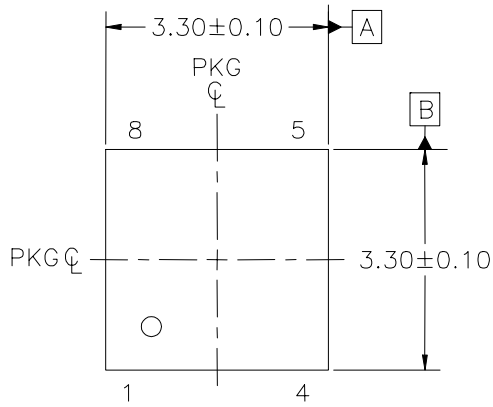
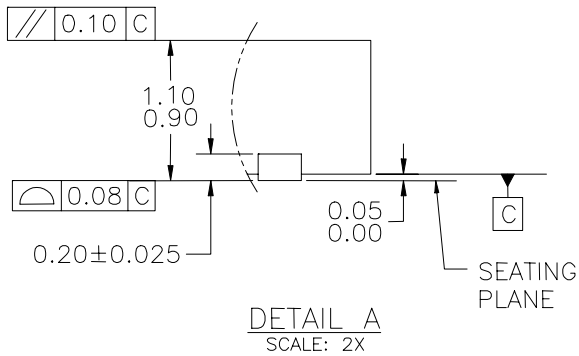
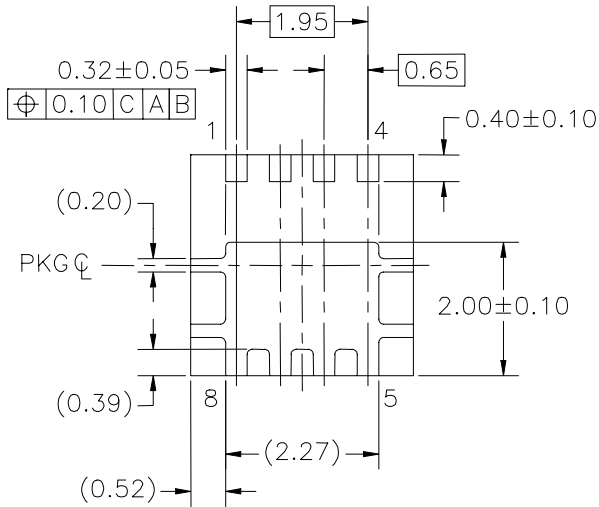
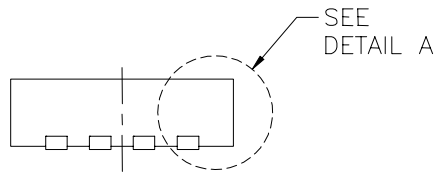


Figure 15. SyncFET body diode reverse leakage versus drain-source voltage

### Dimensional Outline and Pad Layout



LAND PATTERN RECOMMENDATION



DETAIL A  
SCALE: 2X

NOTES: UNLESS OTHERWISE SPECIFIED

- A) PACKAGE STANDARD REFERENCE: JEDEC MO-240, ISSUE A, VAR. BA, DATED OCTOBER 2002.
- B) ALL DIMENSIONS ARE IN MILLIMETERS.
- C) DIMENSIONS DO NOT INCLUDE BURRS OR MOLD FLASH. MOLD FLASH OR BURRS DOES NOT EXCEED 0.10MM.
- D) DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994.
- E) DRAWING FILE NAME: PQFN08BREV1



PQFN08BREV1





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| BitSiC™   | Global Power Resource™                          | Programmable Active Droop™            | TinyBoost®  |
| Build it Now™   | GreenBridge™                                    | QFET®                                 | TinyBuck®   |
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| ESBC™   | MicroFET™                                       | SuperFET®                             | µSerDes™  |
|  | MicroPak™                                       | SuperSOT™-3                           |  |
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| FAST®   | OptoHiT™  |                                       | VisualMax™  |
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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
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- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
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- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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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