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# FDMC7208S

## Dual N-Channel PowerTrench® MOSFET

Q1: 30 V, 12 A, 9.0 mΩ Q2: 30 V, 16 A, 6.4 mΩ

### Features

Q1: N-Channel

- Max  $r_{DS(on)}$  = 9.0 mΩ at  $V_{GS}$  = 10 V,  $I_D$  = 12 A
- Max  $r_{DS(on)}$  = 11.0 mΩ at  $V_{GS}$  = 4.5 V,  $I_D$  = 11 A

Q2: N-Channel

- Max  $r_{DS(on)}$  = 6.4 mΩ at  $V_{GS}$  = 10 V,  $I_D$  = 16 A
- Max  $r_{DS(on)}$  = 7.5 mΩ at  $V_{GS}$  = 4.5 V,  $I_D$  = 13.5 A
- Termination is Lead-free and RoHS Compliant

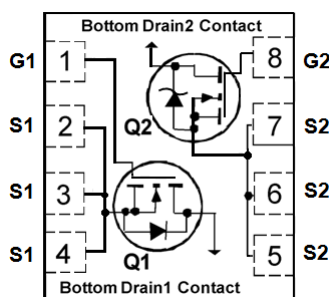
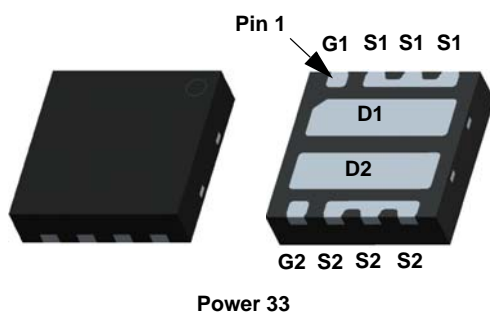


### General Description

This device includes two 30V N-Channel MOSFETs in a dual Power 33 (3 mm X 3 mm MLP) package. The package is enhanced for exceptional thermal performance.

### Applications

- Computing
- Communications
- General Purpose Point of Load
- Notebook System



### MOSFET Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Q1	Q2	Units
$V_{DS}$	Drain to Source Voltage	30	30	V
$V_{GS}$	Gate to Source Voltage (Note 4)	$\pm 20$	$\pm 12$	V
$I_D$	Drain Current -Continuous (Package limited) $T_C = 25^\circ\text{C}$	22	26	A
	-Continuous $T_A = 25^\circ\text{C}$	12 <sup>1a</sup>	16 <sup>1b</sup>	
	-Pulsed	60	80	
$E_{AS}$	Single Pulse Avalanche Energy (Note 3)	21	21	mJ
$P_D$	Power Dissipation for Single Operation $T_A = 25^\circ\text{C}$	1.9 <sup>1a</sup>	1.9 <sup>1b</sup>	W
	Power Dissipation for Single Operation $T_A = 25^\circ\text{C}$	0.8 <sup>1c</sup>	0.8 <sup>1d</sup>	
$T_J, T_{STG}$	Operating and Storage Junction Temperature Range	-55 to +150		$^\circ\text{C}$

### Thermal Characteristics

$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	65 <sup>1a</sup>	65 <sup>1b</sup>	$^\circ\text{C/W}$
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	155 <sup>1c</sup>	155 <sup>1d</sup>	

### Package Marking and Ordering Information

Device Marking	Device	Package	Reel Size	Tape Width	Quantity
FDMC7208S	FDMC7208S	Power 33	13 "	12 mm	3000 units

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

Symbol	Parameter	Test Conditions	Type	Min	Typ	Max	Units
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**Off Characteristics**

$BV_{DSS}$	Drain to Source Breakdown Voltage	$I_D = 250\text{ }\mu\text{A}$ , $V_{GS} = 0\text{ V}$ $I_D = 1\text{ mA}$ , $V_{GS} = 0\text{ V}$	Q1 Q2	30 30			V
$\frac{\Delta BV_{DSS}}{\Delta T_J}$	Breakdown Voltage Temperature Coefficient	$I_D = 250\text{ }\mu\text{A}$ , referenced to $25\text{ }^{\circ}\text{C}$ $I_D = 10\text{ mA}$ , referenced to $25\text{ }^{\circ}\text{C}$	Q1 Q2		27 21		mV/ $^{\circ}\text{C}$
$I_{DSS}$	Zero Gate Voltage Drain Current	$V_{DS} = 24\text{ V}$ , $V_{GS} = 0\text{ V}$	Q1 Q2			1 500	$\mu\text{A}$
$I_{GSS}$	Gate to Source Leakage Current, Forward	$V_{GS} = 20\text{ V}$ , $V_{DS} = 0\text{ V}$ $V_{GS} = 12\text{ V}$ , $V_{DS} = 0\text{ V}$	Q1 Q2			100 100	nA

**On Characteristics**

$V_{GS(th)}$	Gate to Source Threshold Voltage	$I_D = 250\text{ }\mu\text{A}$ , $V_{GS} = 0\text{ V}$ $I_D = 1\text{ mA}$ , $V_{GS} = 0\text{ V}$	Q1 Q2	1.2 1.2	1.7 1.6	3.0 3.0	V
$\frac{\Delta V_{GS(th)}}{\Delta T_J}$	Gate to Source Threshold Voltage Temperature Coefficient	$I_D = 250\text{ }\mu\text{A}$ , referenced to $25\text{ }^{\circ}\text{C}$ $I_D = 10\text{ mA}$ , referenced to $25\text{ }^{\circ}\text{C}$	Q1 Q2		-5 -3		mV/ $^{\circ}\text{C}$
$r_{DS(on)}$	Drain to Source On Resistance	$V_{GS} = 10\text{ V}$ , $I_D = 12\text{ A}$ $V_{GS} = 4.5\text{ V}$ , $I_D = 11\text{ A}$ $V_{GS} = 10\text{ V}$ , $I_D = 12\text{ A}$ , $T_J = 125\text{ }^{\circ}\text{C}$	Q1		6.7 8.8 9.2	9.0 11.0 12.4	m $\Omega$
		$V_{GS} = 10\text{ V}$ , $I_D = 16\text{ A}$ $V_{GS} = 4.5\text{ V}$ , $I_D = 13.5\text{ A}$ $V_{GS} = 10\text{ V}$ , $I_D = 16\text{ A}$ , $T_J = 125\text{ }^{\circ}\text{C}$	Q2		4.7 5.3 6.4	6.4 7.5 6.8	
$g_{FS}$	Forward Transconductance	$V_{DS} = 5\text{ V}$ , $I_D = 12\text{ A}$ $V_{DS} = 5\text{ V}$ , $I_D = 16\text{ A}$	Q1 Q2		53 80		S

**Dynamic Characteristics**

$C_{iss}$	Input Capacitance	Q1: $V_{DS} = 15\text{ V}$ , $V_{GS} = 0\text{ V}$ , $f = 1\text{ MHz}$	Q1 Q2		848 1685	1130 2245	pF
$C_{oss}$	Output Capacitance	Q2: $V_{DS} = 15\text{ V}$ , $V_{GS} = 0\text{ V}$ , $f = 1\text{ MHz}$	Q1 Q2		270 432	360 575	pF
$C_{rss}$	Reverse Transfer Capacitance	$V_{DS} = 15\text{ V}$ , $V_{GS} = 0\text{ V}$ , $f = 1\text{ MHz}$	Q1 Q2		36 42	55 65	pF
$R_g$	Gate Resistance		Q1 Q2	0.1 0.1	1.1 1.0	2.5 2.5	$\Omega$

**Switching Characteristics**

$t_{d(on)}$	Turn-On Delay Time	Q1: $V_{DD} = 15\text{ V}$ , $I_D = 12\text{ A}$ , $R_{GEN} = 6\text{ }\Omega$ Q2: $V_{DD} = 15\text{ V}$ , $I_D = 16\text{ A}$ , $R_{GEN} = 6\text{ }\Omega$	Q1 Q2		6 7	12 14	ns
$t_r$	Rise Time		Q1 Q2		2 3	10 10	ns
$t_{d(off)}$	Turn-Off Delay Time		Q1 Q2		16 23	29 36	ns
$t_f$	Fall Time		Q1 Q2		2 2	10 10	ns
$Q_g$	Total Gate Charge	$V_{GS} = 0\text{ V}$ to $10\text{ V}$	Q1 Q2		13 26	18 36	nC
$Q_g$	Total Gate Charge	$V_{GS} = 0\text{ V}$ to $5\text{ V}$	Q1 Q2		6.7 14	9.4 20	nC
$Q_{gs}$	Gate to Source Gate Charge	Q2 $V_{DD} = 15\text{ V}$ , $I_D = 16\text{ A}$	Q1 Q2		2.3 3.9		nC
$Q_{gd}$	Gate to Drain "Miller" Charge		Q1 Q2		1.8 2.7		nC



# Typical Characteristics (Q1 N-Channel) $T_J = 25^\circ\text{C}$ unless otherwise noted

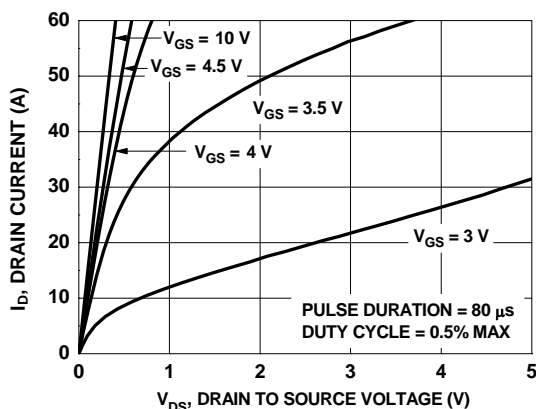


Figure 1. On Region Characteristics

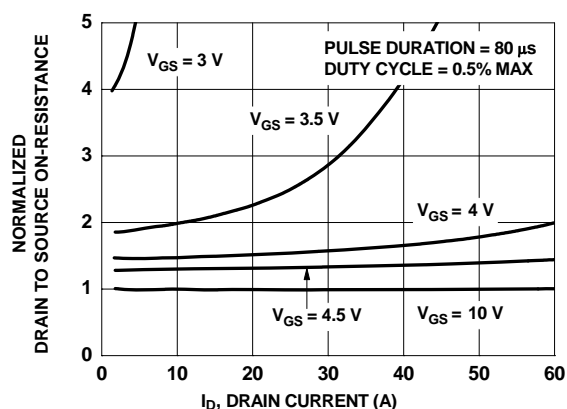


Figure 2. Normalized On-Resistance vs Drain Current and Gate Voltage

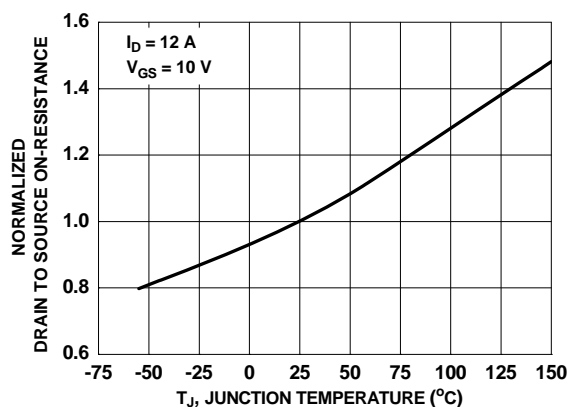


Figure 3. Normalized On Resistance vs Junction Temperature

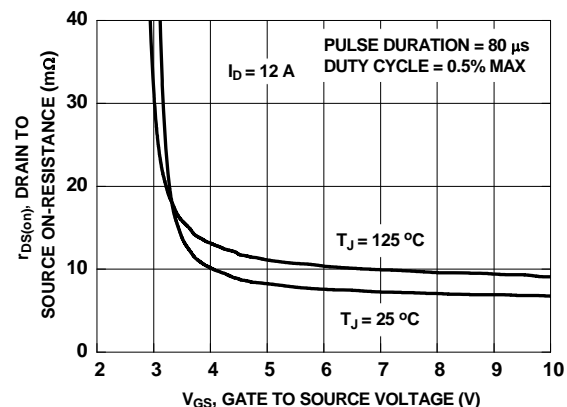


Figure 4. On-Resistance vs Gate to Source Voltage

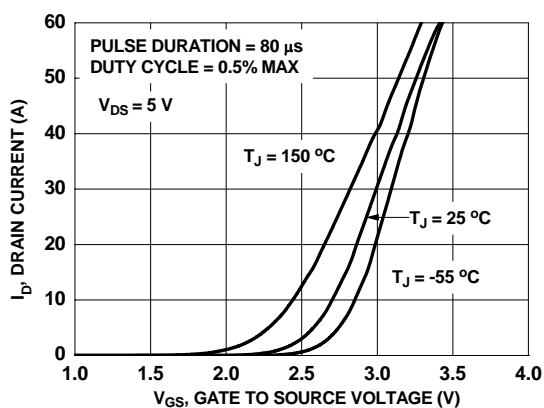


Figure 5. Transfer Characteristics

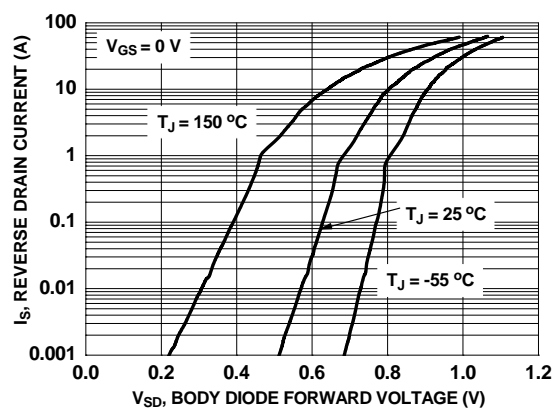


Figure 6. Source to Drain Diode Forward Voltage vs Source Current

# Typical Characteristics (Q1 N-Channel) $T_J = 25^\circ\text{C}$ unless otherwise noted

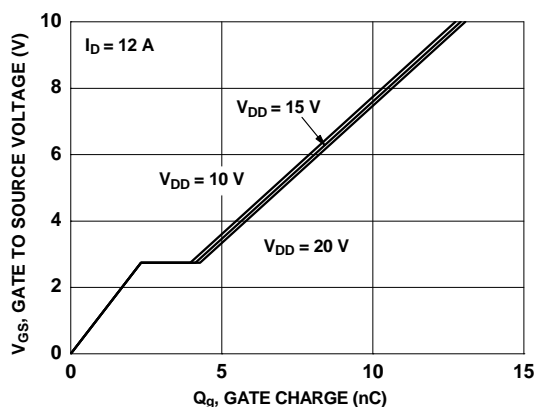


Figure 7. Gate Charge Characteristics

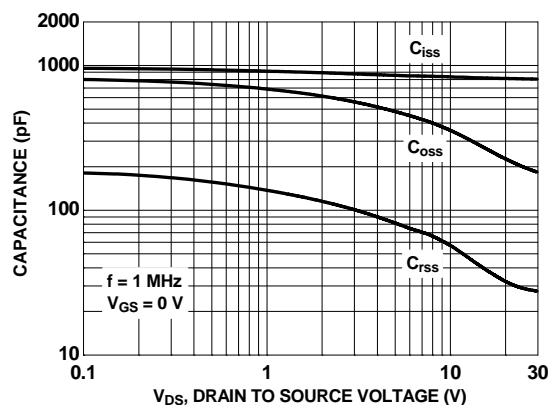


Figure 8. Capacitance vs Drain to Source Voltage

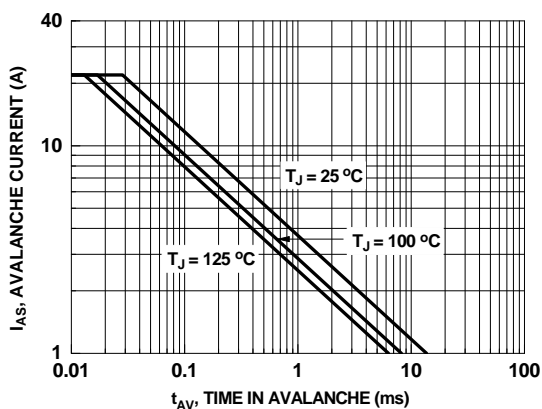


Figure 9. Unclamped Inductive Switching Capability

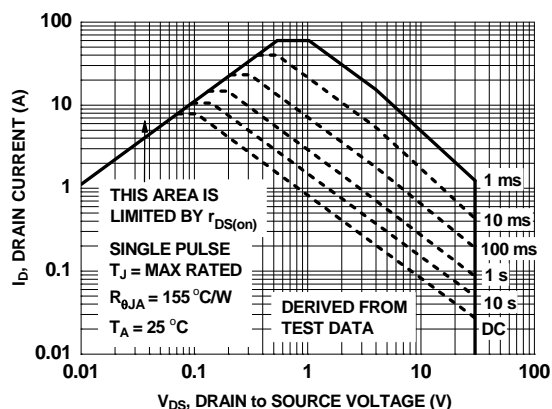


Figure 10. Forward Bias Safe Operating Area

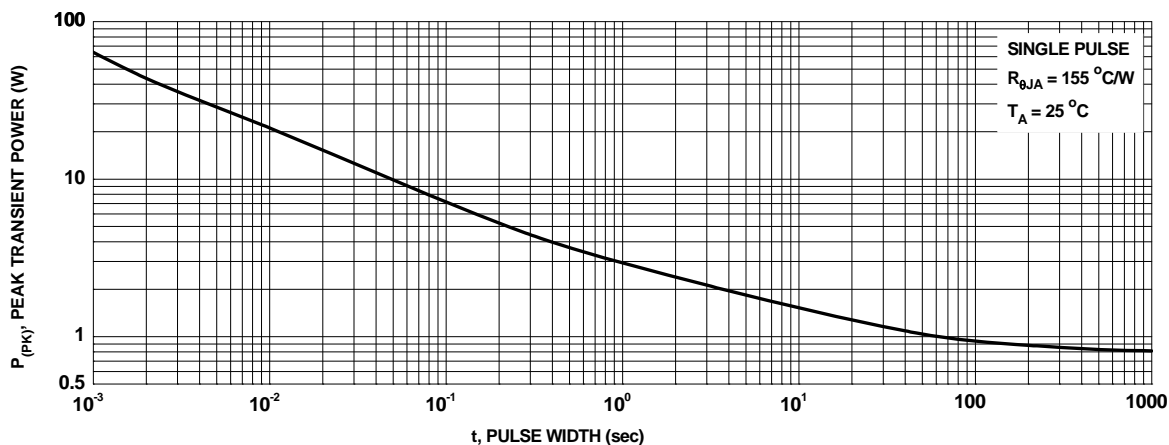


Figure 11. Single Pulse Maximum Power Dissipation

# Typical Characteristics (Q1 N-Channel) $T_J = 25^\circ\text{C}$ unless otherwise noted

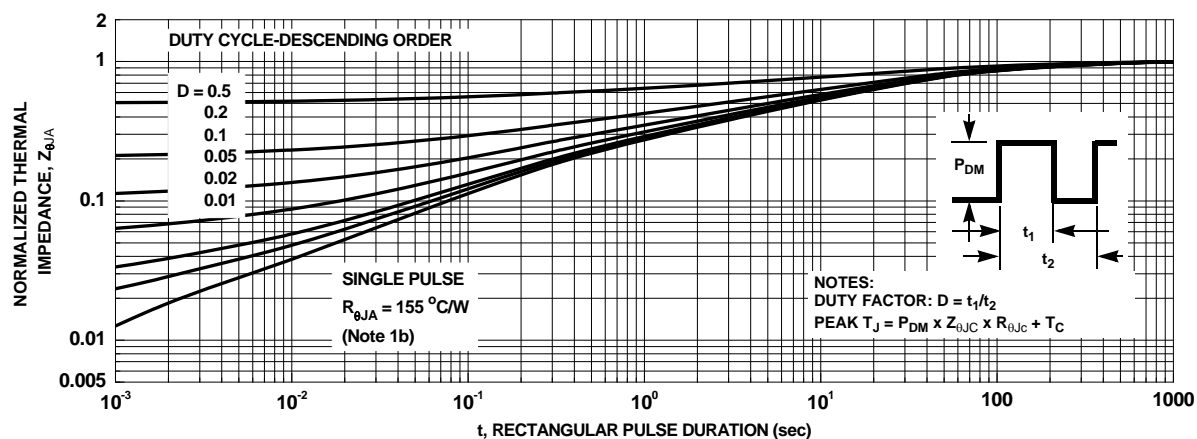


Figure 12. Junction-to-Ambient Transient Thermal Response Curve

## Typical Characteristics (Q2 N-Channel) $T_J = 25^\circ\text{C}$ unless otherwise noted

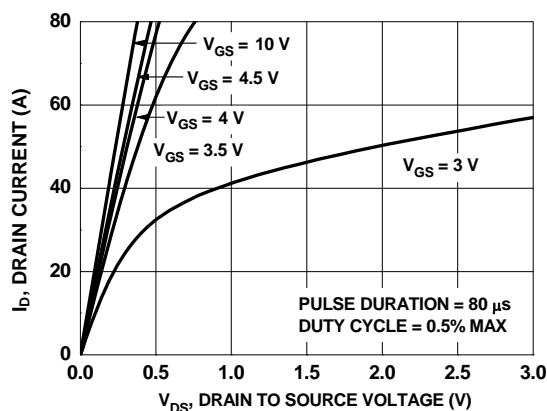


Figure 14. On-Region Characteristics

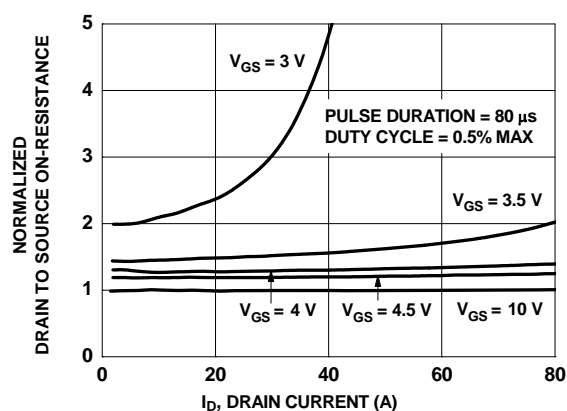


Figure 15. Normalized on-Resistance vs Drain Current and Gate Voltage

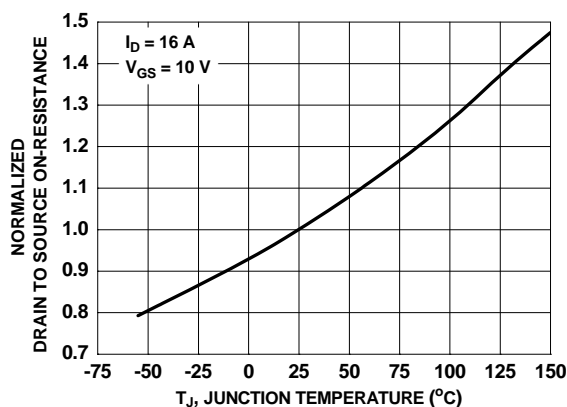


Figure 16. Normalized On-Resistance vs Junction Temperature

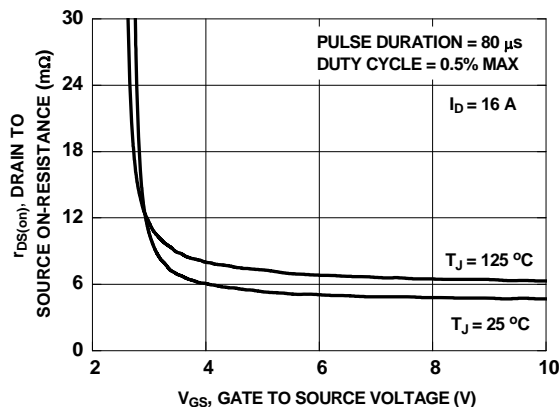


Figure 17. On-Resistance vs Gate to Source Voltage

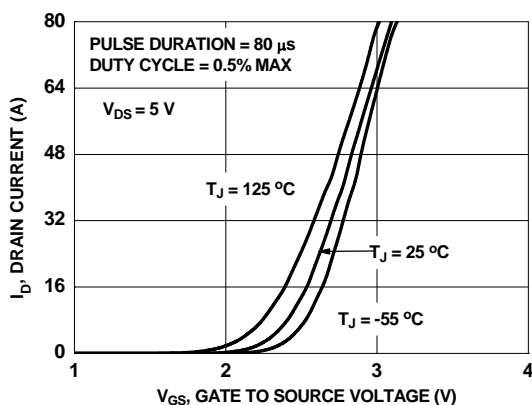


Figure 18. Transfer Characteristics

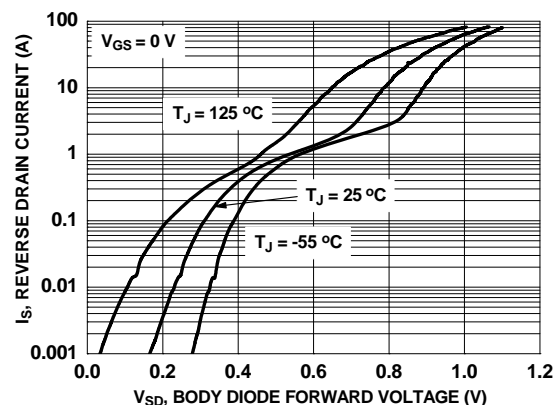


Figure 19. Source to Drain Diode Forward Voltage vs Source Current



## Typical Characteristics (Q2 N-Channel) $T_J = 25^\circ\text{C}$ unless otherwise noted

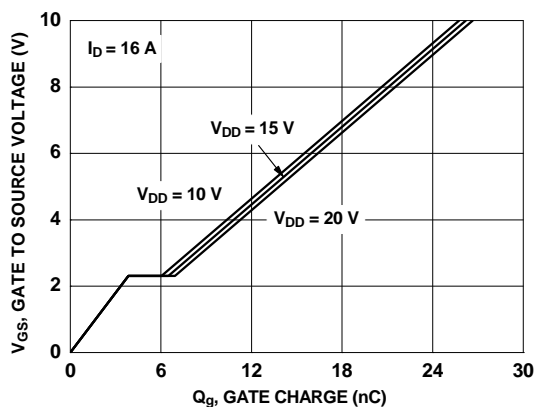


Figure 20. Gate Charge Characteristics

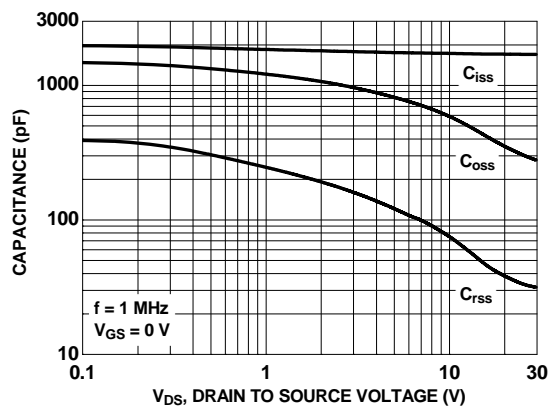


Figure 21. Capacitance vs Drain to Source Voltage

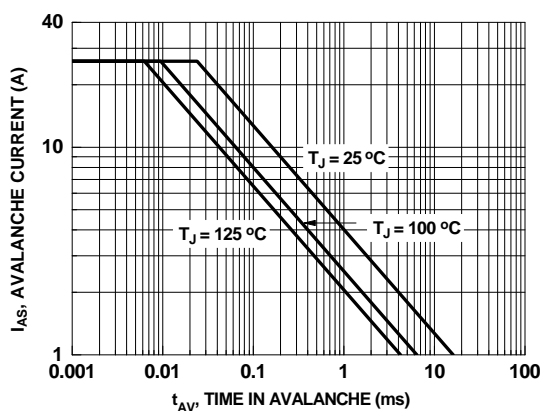


Figure 22. Unclamped Inductive Switching Capability

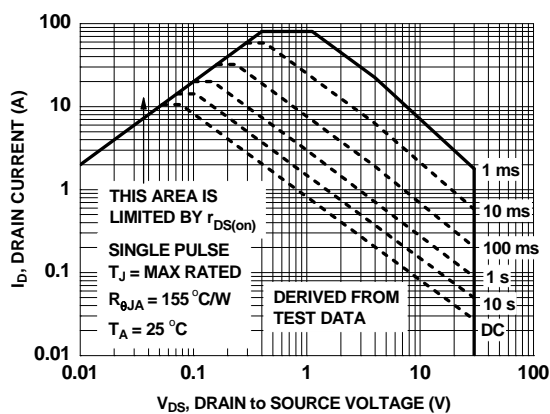


Figure 23. Forward Bias Safe Operating Area

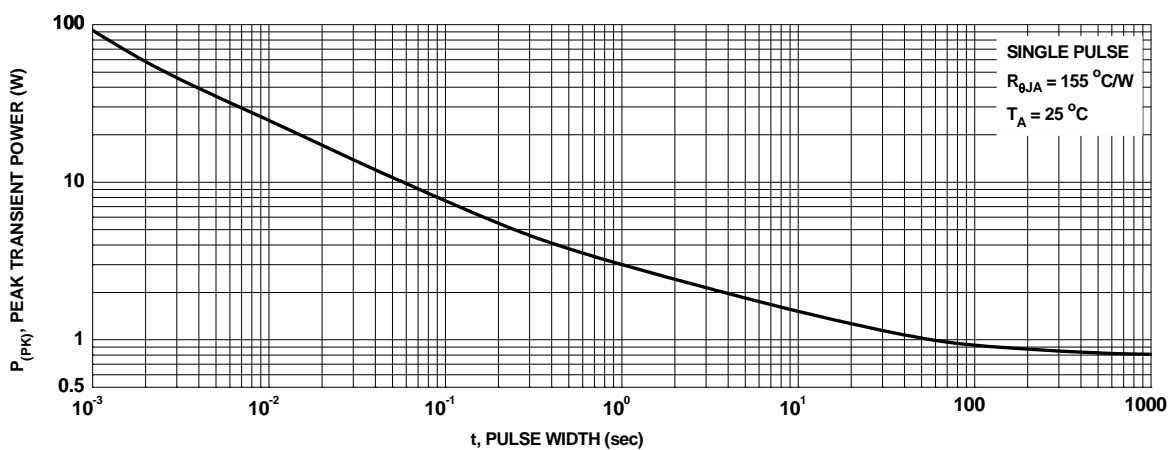


Figure 24. Single Pulse Maximum Power Dissipation

Typical Characteristics (Q2 N-Channel)  $T_J = 25^\circ\text{C}$  unless otherwise noted

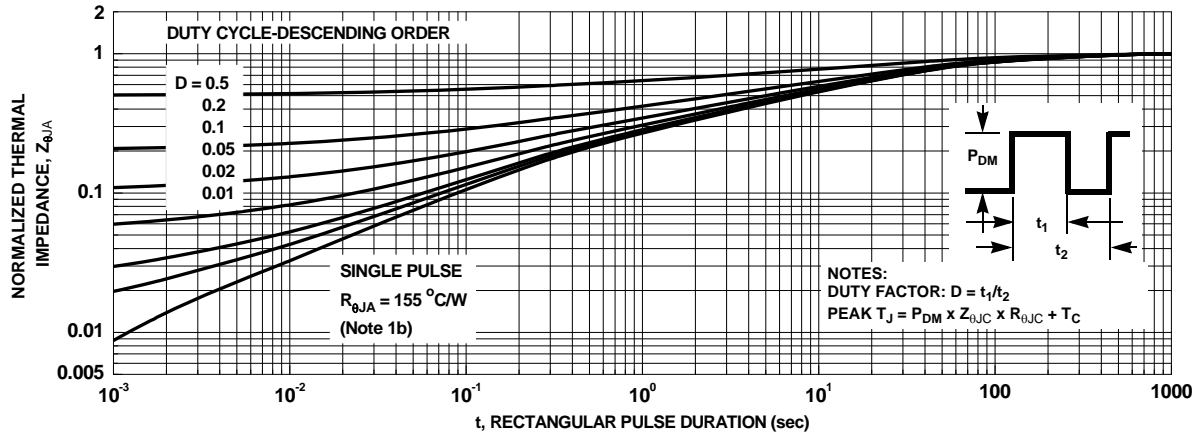


Figure 26. Junction-to-Ambient Transient Thermal Response Curve

## Typical Characteristics (continued)

### SyncFET<sup>™</sup> Schottky body diode Characteristics

Fairchild's SyncFET<sup>™</sup> 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 FDMC7208S.

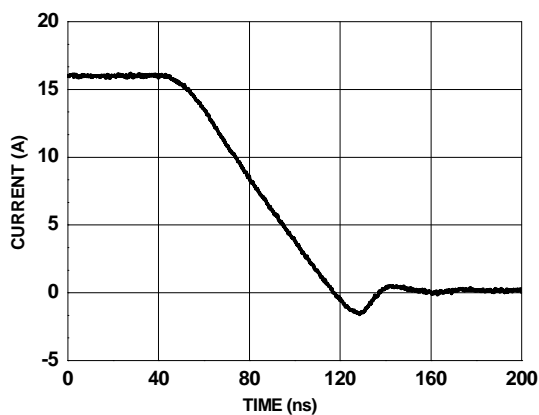


Figure 27. FDMC7208S SyncFET<sup>™</sup> body diode reverse recovery characteristic

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

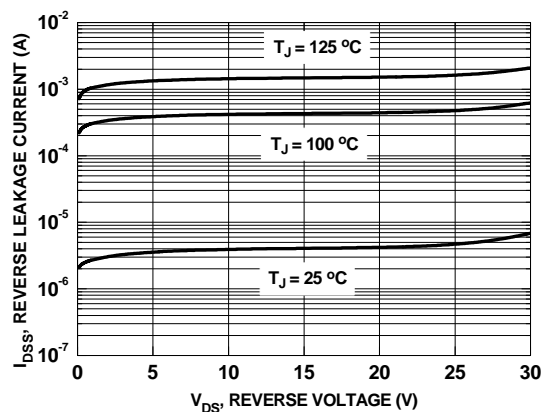
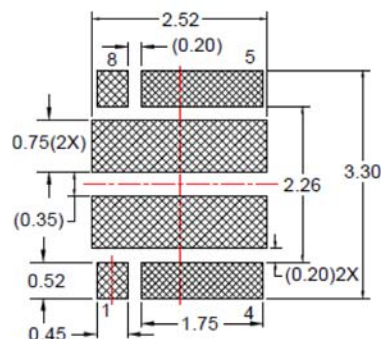
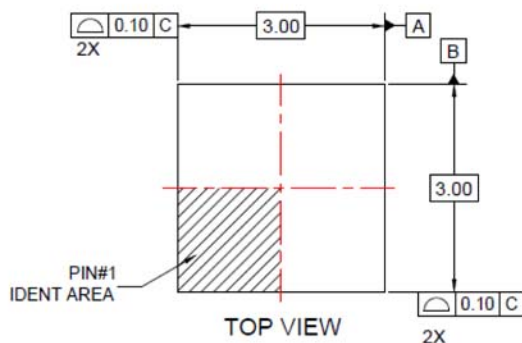
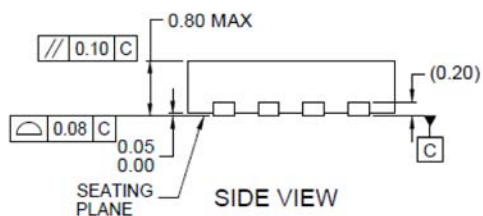


Figure 28. SyncFET<sup>™</sup> body diode reverse leakage versus drain-source voltage

## Dimensional Outline and Pad Layout

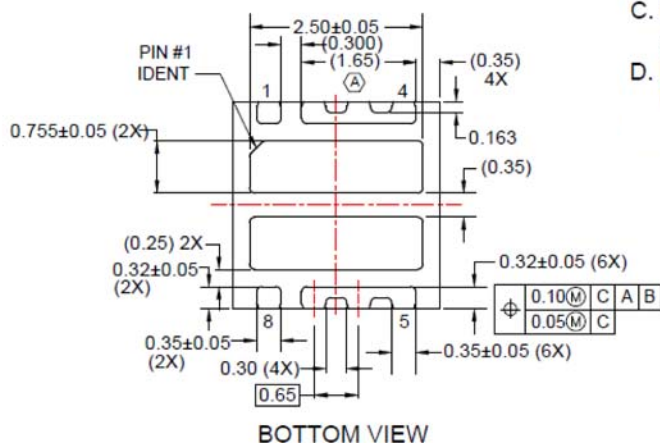


RECOMMENDED LAND PATTERN



### NOTES:


- A. DOES NOT FULLY CONFORM TO JEDEC REGISTRATION, MO-229.
- B. DIMENSIONS ARE IN MILLIMETERS.
- C. DIMENSIONS AND TOLERANCES PER ASME Y14.5M, 1994
- D. LAND PATTERN RECOMMENDATION IS BASED ON FSC DESIGN ONLY





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Dual Cool™	Marking Small Speakers Sound Louder and Better™	SignalWise™	TriFault Detect™
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EfficientMax™	MICROCOUPLER™	SMART START™	µSerDes™
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## PRODUCT STATUS DEFINITIONS

### Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative / In Design	Datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.
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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