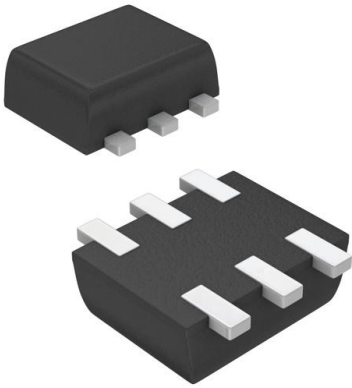


FDY4000CZ Datasheet

www.digi-electronics.com



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	FDY4000CZ-DG
Manufacturer	onsemi
Manufacturer Product Number	FDY4000CZ
Description	MOSFET N/P-CH 20V 0.6A SOT563F
Detailed Description	Mosfet Array 20V 600mA, 350mA 446mW Surface Mount SOT-563F



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

FDY4000CZ

Series:

PowerTrench®

Technology:

MOSFET (Metal Oxide)

FET Feature:

Logic Level Gate

Current - Continuous Drain (Id) @ 25°C:

600mA, 350mA

Vgs(th) (Max) @ Id:

1.5V @ 250µA

Input Capacitance (Ciss) (Max) @ Vds:

60pF @ 10V

Operating Temperature:

-55°C ~ 150°C (Tj)

Package / Case:

SOT-563, SOT-666

Base Product Number:

FDY4000

Manufacturer:

onsemi

Product Status:

Last Time Buy

Configuration:

N and P-Channel

Drain to Source Voltage (Vdss):

20V

Rds On (Max) @ Id, Vgs:

700mOhm @ 600mA, 4.5V

Gate Charge (Qg) (Max) @ Vgs:

1.1nC @ 4.5V

Power - Max:

446mW

Mounting Type:

Surface Mount

Supplier Device Package:

SOT-563F

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8541.21.0095

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99



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Please note. As part of the Fairchild Semiconductor integration, some of the Fairchild orderable part numbers will need to change in order to meet ON Semiconductor's system requirements. Since the ON Semiconductor product management systems do not have the ability to manage part nomenclature that utilizes an underscore (_), the underscore (_) in the Fairchild part numbers will be changed to a dash (-). This document may contain device numbers with an underscore (_). Please check the ON Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.onsemi.com. Please email any questions regarding the system integration to Fairchild_questions@onsemi.com.

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FAIRCHILD
SEMICONDUCTOR®

November 2009

FDY4000CZ

Complementary N & P-Channel PowerTrench® MOSFET

Features

Q1: N-Channel

- Max $r_{DS(on)}$ = 0.7 Ω at $V_{GS} = 4.5V$, $I_D = 600mA$
- Max $r_{DS(on)}$ = 0.85 Ω at $V_{GS} = 2.5V$, $I_D = 500mA$
- Max $r_{DS(on)}$ = 1.25 Ω at $V_{GS} = 1.8V$, $I_D = 150mA$

Q2: P-Channel

- Max $r_{DS(on)}$ = 1.2 Ω at $V_{GS} = -4.5V$, $I_D = -350mA$
- Max $r_{DS(on)}$ = 1.6 Ω at $V_{GS} = -2.5V$, $I_D = -300mA$
- Max $r_{DS(on)}$ = 2.7 Ω at $V_{GS} = -1.8V$, $I_D = -150mA$
- ESD protection diode (note 3)
- RoHS Compliant



General Description

This Complementary N & P-Channel MOSFET has been designed using Fairchild Semiconductor's advanced PowerTrench® process to optimize the $r_{DS(on)}$ @ $V_{GS} = 2.5V$ and specify the $r_{DS(on)}$ @ $V_{GS} = 1.8V$.

Applications

- Level shifting
- Power Supply Converter Circuits
- Load Point Switching Cell Phones, Pager

MOSFET Maximum Ratings $T_C = 25^\circ C$ unless otherwise noted

Symbol	Parameter	Q1	Q2	Units
V_{DS}	Drain to Source Voltage	20	-20	V
V_{GS}	Gate to Source Voltage	± 12	± 8	V
I_D	Drain Current - Continuous	600	-350	mA
	- Pulsed	1000	-1000	
P_D	Power Dissipation (Steady State)	(Note 1a)	625	mW
		(Note 1b)	446	
T_J, T_{STG}	Operating and Storage Jaunting Temperature Range	-55 to 150		$^\circ C$

Thermal Characteristics

$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	(Note 1a)	200	$^\circ C/W$
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	(Note 1b)	280	

Package Marking and Ordering Information

Device Marking	Device	Package	Reel Size	Tape Width	Quantity
E	FDY4000CZ	SC89-6	7"	8mm	3000units

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

Symbol	Parameter	Test Conditions	Type	Min	Typ	Max	Units
B_{VDSS}	Drain to Source Breakdown Voltage	$I_D = 250\mu\text{A}, V_{GS} = 0\text{V}$	Q1	20			V
		$I_D = -250\mu\text{A}, V_{GS} = 0\text{V}$	Q2	-20			
$\frac{\Delta B_{VDSS}}{\Delta T_J}$	Breakdown Voltage Temperature Coefficient	$I_D = 250\mu\text{A}$, referenced to 25°C	Q1		15		mV/ $^\circ\text{C}$
		$I_D = -250\mu\text{A}$, referenced to 25°C	Q2		-15		
I_{DSS}	Zero Gate Voltage Drain Current	$V_{DS} = 16\text{V}, V_{GS} = 0\text{V}$	Q1			1	μA
		$V_{DS} = -16\text{V}, V_{GS} = 0\text{V}$	Q2			-3	
I_{GSS}	Gate-Body Leakage	$V_{GS} = \pm 12\text{V}, V_{DS} = 0\text{V}$	Q1			± 10	μA
		$V_{GS} = \pm 4.5\text{V}, V_{DS} = 0\text{V}$	Q1			± 1	
		$V_{GS} = \pm 8\text{V}, V_{DS} = 0\text{V}$	Q2			± 10	

On Characteristics (note 2)

$V_{GS(th)}$	Gate to Source Threshold Voltage	$V_{GS} = V_{DS}, I_D = 250\mu\text{A}$		0.6	1.5		V	
		$V_{GS} = V_{DS}, I_D = -250\mu\text{A}$		0.6	-1.5			
$\frac{\Delta V_{GS(th)}}{\Delta T_J}$	Gate to Source Threshold Voltage Temperature Coefficient	$I_D = 250\mu\text{A}$, referenced to 25°C	Q1		-3		mV/ $^\circ\text{C}$	
		$I_D = -250\mu\text{A}$, referenced to 25°C	Q2		3			
$r_{DS(on)}$	Drain to Source On Resistance	$V_{GS} = 4.5\text{V}, I_D = 600\text{mA}$	Q1		0.30	0.70	Ω	
		$V_{GS} = 2.5\text{V}, I_D = 500\text{mA}$		0.40	0.85			
		$V_{GS} = 1.8\text{V}, I_D = 100\text{mA}$		0.80	1.25			
		$V_{GS} = 4.5\text{V}, I_D = 600\text{mA}, T_J = 125^\circ\text{C}$		0.35	1.00			
		$V_{GS} = -5\text{V}, I_D = -350\text{mA}$		Q2		0.5		1.2
		$V_{GS} = -2\text{V}, I_D = -100\text{mA}$			0.8	1.6		
$V_{GS} = -1.8\text{V}, I_D = -150\text{mA}$	1.3	2.7						
$V_{GS} = -4.5\text{V}, I_D = -350\text{mA}, T_J = 125^\circ\text{C}$	0.7	1.6						
g_{FS}	Forward Transconductance	$V_{GS} = 5\text{V}, I_D = 600\text{mA}$	Q1		1.8		S	
		$V_{GS} = -5\text{V}, I_D = -350\text{mA}$	Q2		1			

Dynamic Characteristics

C_{iss}	Input Capacitance	Q1 $V_{DS} = 10\text{V}, V_{GS} = 0\text{V}, f = 1\text{MHz}$	Q1		60		pF
			Q2		100		
C_{oss}	Output Capacitance	Q2 $V_{DS} = -10\text{V}, V_{GS} = 0\text{V}, f = 1\text{MHz}$	Q1		20		pF
			Q2		30		
C_{rswt}	Reverse Transfer Capacitance	Q1 $V_{DS} = -10\text{V}, V_{GS} = 0\text{V}, f = 1\text{MHz}$	Q1		10		pF
			Q2		15		

Switching Characteristics

$t_{d(on)}$	Turn-On Delay Time	Q1 $V_{DD} = 10\text{V}, I_D = 1\text{A},$ $V_{GS} = 4.5\text{V}, R_g = 6\Omega$	Q1		6	12	ns
			Q2		6	12	
t_r	Rise Time	Q1 $V_{DD} = 10\text{V}, I_D = 1\text{A},$ $V_{GS} = 4.5\text{V}, R_g = 6\Omega$	Q1		8	16	ns
			Q2		13	23	
$t_{d(off)}$	Turn-Off Delay Time	Q2 $V_{DD} = -10\text{V}, I_D = -0.5\text{A},$ $V_{GS} = -4.5\text{V}, R_g = 6\Omega$	Q1		8	16	ns
			Q2		8	16	
t_f	Fall Time	Q1 $V_{DD} = -10\text{V}, I_D = -0.5\text{A},$ $V_{GS} = -4.5\text{V}, R_g = 6\Omega$	Q1		2.4	4.8	ns
			Q2		1	2	
Q_g	Total Gate Charge	Q1 $V_{DS} = 10\text{V}, I_D = 600\text{mA}, V_{GS} = 4.5\text{V}$	Q1		0.8	1.1	nC
			Q2		1.0	1.4	
Q_{gs}	Gate to Source Gate Charge	Q1 $V_{DS} = 10\text{V}, I_D = 600\text{mA}, V_{GS} = 4.5\text{V}$	Q1		0.16		nC
			Q2		0.2		
Q_{gd}	Gate to Drain "Miller" Charge	Q1 $V_{DS} = -10\text{V}, I_D = -350\text{mA}, V_{GS} = -4.5\text{V}$	Q1		0.26		nC
			Q2		0.3		

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

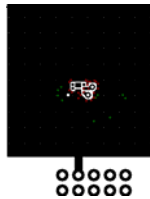
Symbol	Parameter	Test Conditions	Type	Min	Typ	Max	Units
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Drain-Source Diode Characteristics

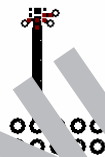
V_{SD}	Source to Drain Diode Forward Voltage	$V_{GS} = 0\text{V}, I_S = 150\text{mA}$ (Note 2)	Q1	0.7	1.2		V
		$V_{GS} = 0\text{V}, I_S = -150\text{mA}$ (Note 2)	Q2	-0.8	-1.2		
t_{rr}	Reverse Recovery Time	$I_F = 600\text{mA}, di/dt = 100\text{A}/\mu\text{s}$	Q1	8			ns
			Q2	11			
Q_{rr}	Reverse Recovery Charge	$I_F = -350\text{mA}, di/dt = 100\text{A}/\mu\text{s}$	Q1	1			nC
			Q2	2			

Notes:

1: $R_{\theta JA}$ is the sum of the junction-to-case and case-to-ambient thermal resistance where the case thermal reference is defined as the solder mounting surface of the drain pins. $R_{\theta JC}$ is guaranteed by design while $R_{\theta JA}$ is determined by the user's board design.



a) $200^\circ\text{C}/\text{W}$ when mounted on a 1 in^2 pad of 2 oz copper



b) $200^\circ\text{C}/\text{W}$ when mounted on a minimum pad of 2 oz copper

Scale 1:1 on letter size paper

2: Pulse Test : Pulse Width < 300us, Duty Cycle < 2.0%

3: The diode connected between the gate and source serves as protection against ESD. No gate overvoltage rating is implied.

DISCONTINUED
THIS DEVICE IS NOT RECOMMENDED FOR NEW DESIGN
PLEASE CONTACT YOUR onsemi REPRESENTATIVE FOR INFORMATION

Typical Characteristics Q1 (N-Channel)

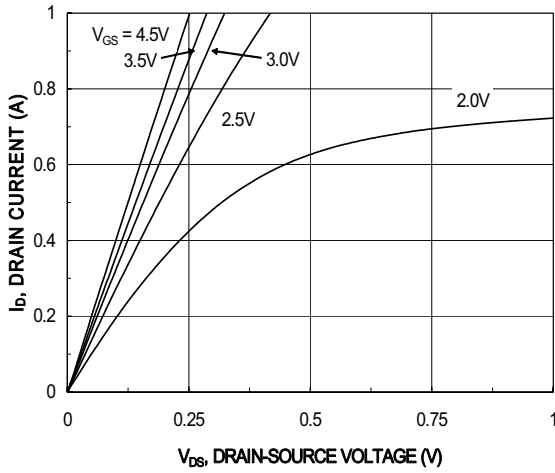


Figure 1. On-Region Characteristics

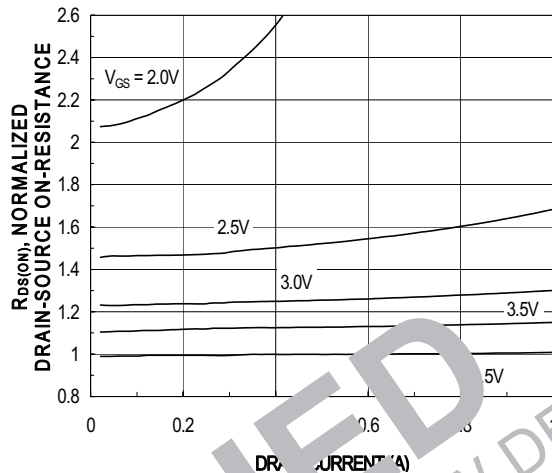


Figure 2. Normalized On-Resistance vs. Drain Current and Gate Voltage

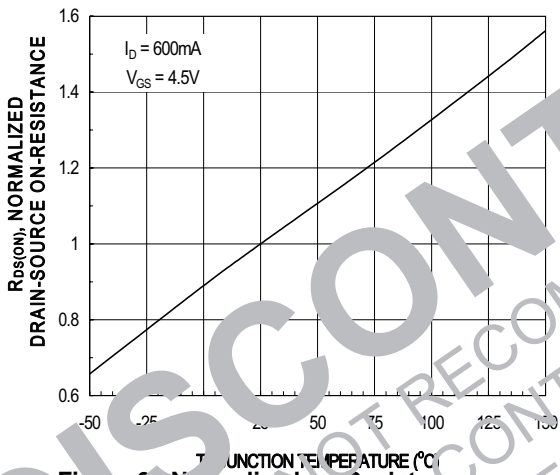


Figure 3. Normalized On-Resistance vs. Temperature

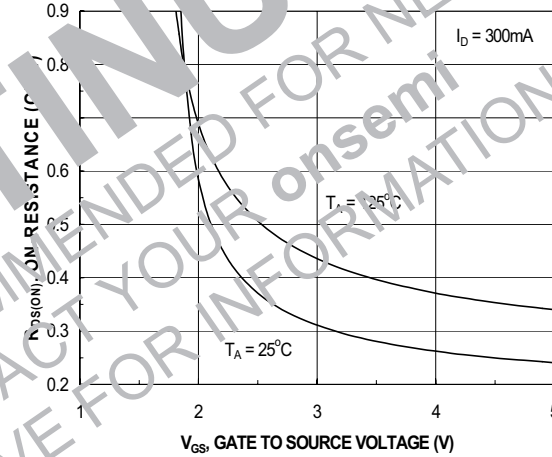


Figure 4. On-Resistance vs. Gate-to-Source Voltage

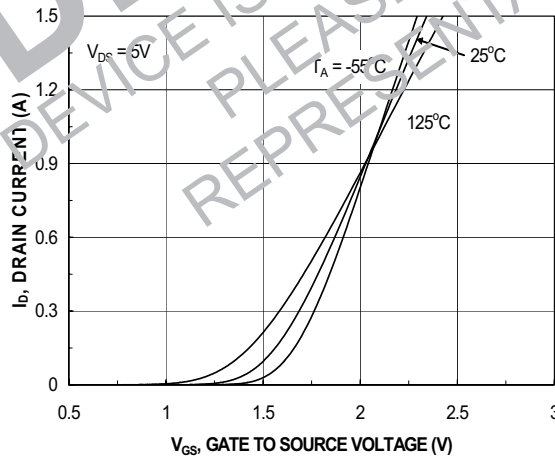


Figure 5. Transfer Characteristics

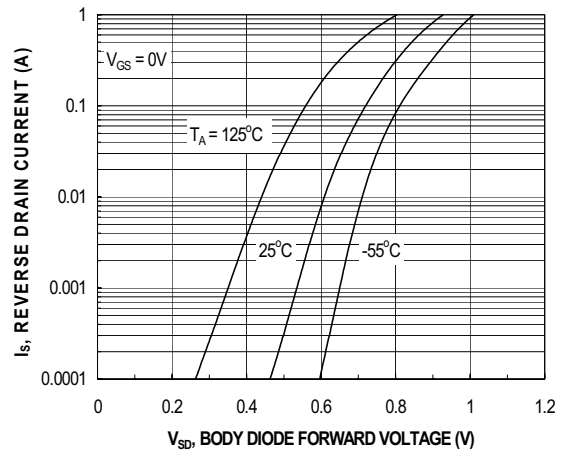


Figure 6. Source to Drain Diode Forward Voltage vs. Source Current and Temperature

Typical Characteristics Q1 (N-Channel)

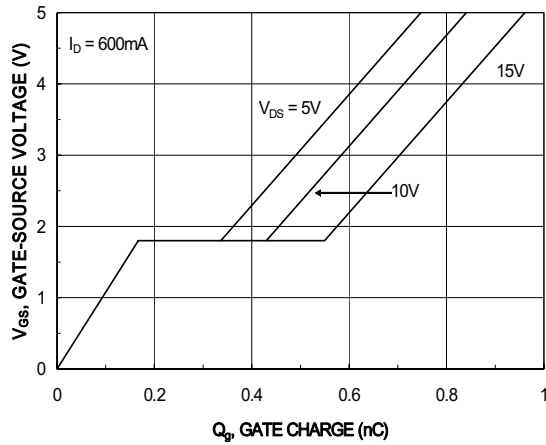


Figure 7. Gate Charge Characteristics

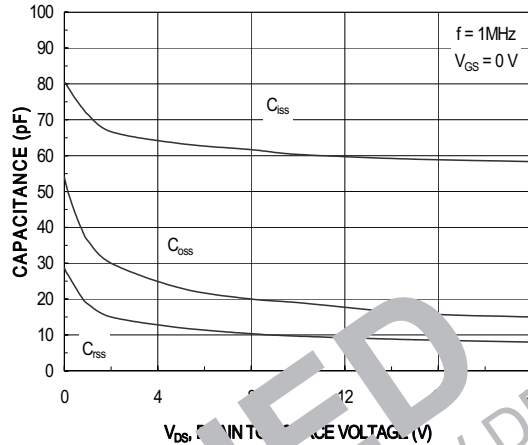


Figure 8. Capacitance vs. Drain to Source Voltage

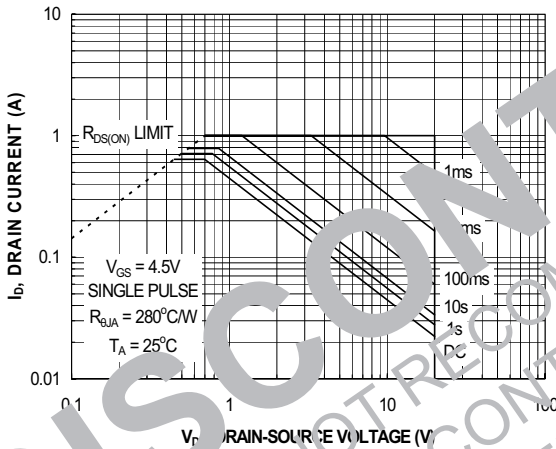


Figure 9. Maximum Safe Operating Area

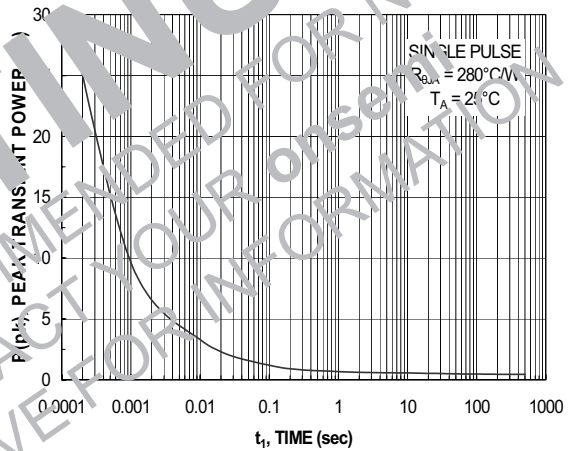


Figure 10. Single Pulse Maximum Power Dissipation

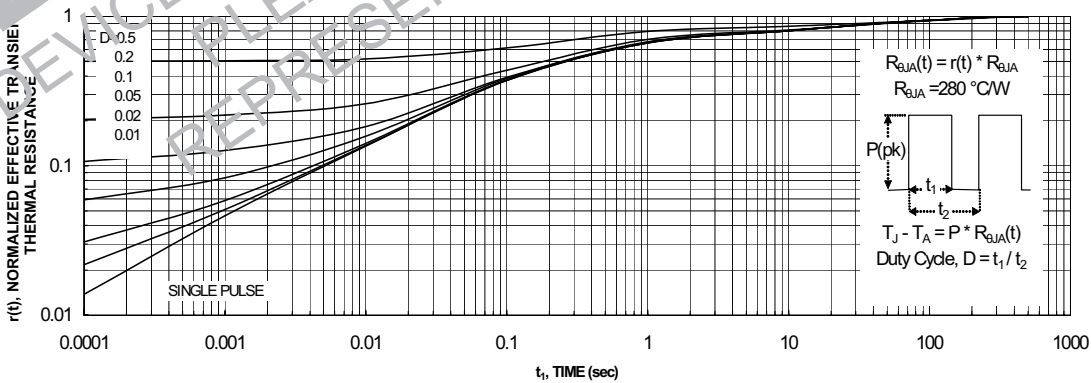


Figure 11. Transient Thermal Response Curve
Thermal characterization performed using the conditions described in Note 1b.
Transient thermal response will change depending on the circuit board design.

Typical Characteristics Q2 (P-Channel)

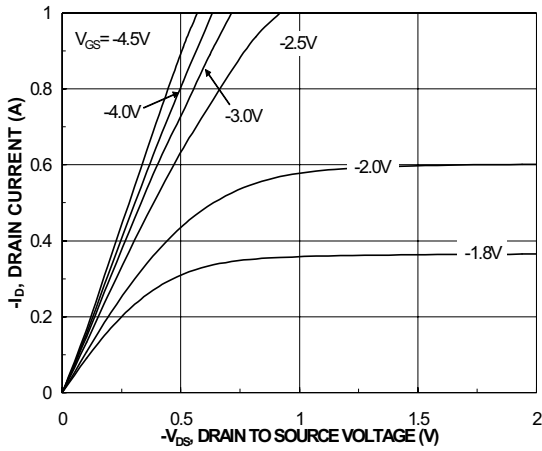


Figure 12. On-Region Characteristics

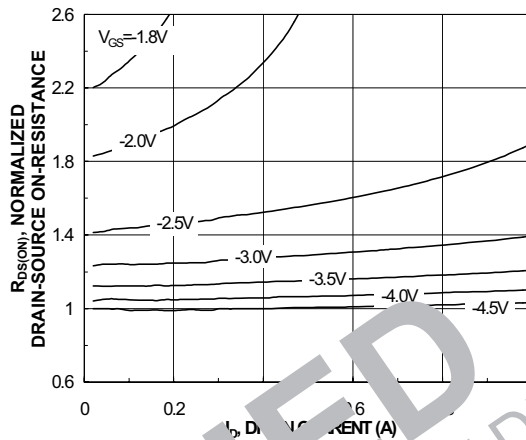


Figure 13. Normalized On-Resistance vs. Drain Current and Gate Voltage

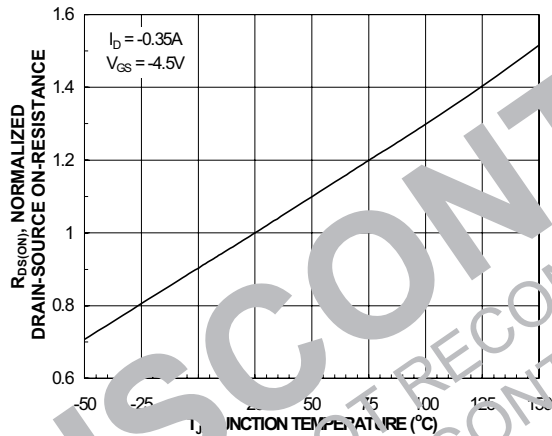


Figure 14. Normalized On-Resistance vs. Temperature

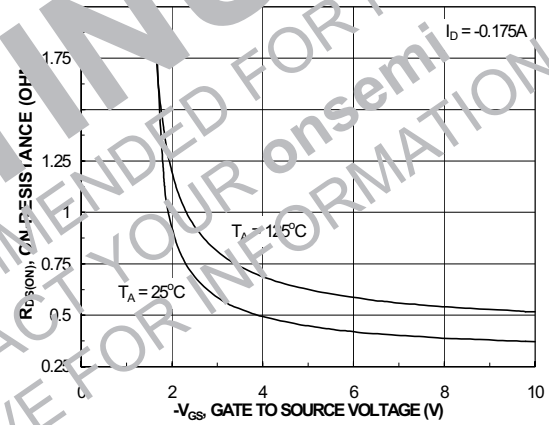


Figure 15. On-Resistance vs. Gate-to-Source Voltage

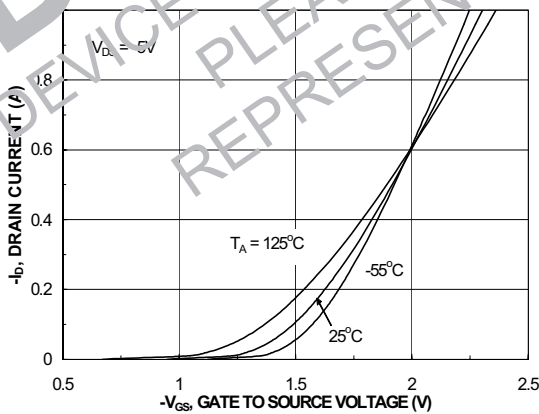


Figure 16. Transfer Characteristics

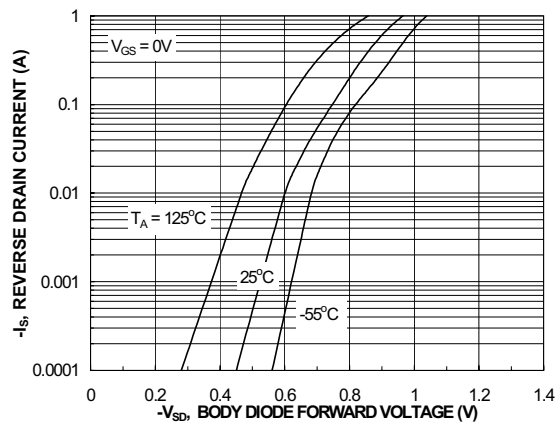


Figure 17. Source to Drain Diode Forward Voltage vs. Source Current and Temperature

Typical Characteristics Q2 (P-Channel)

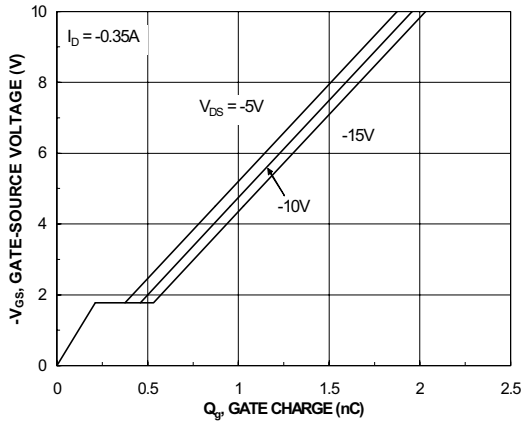


Figure 18. Gate Charge Characteristics

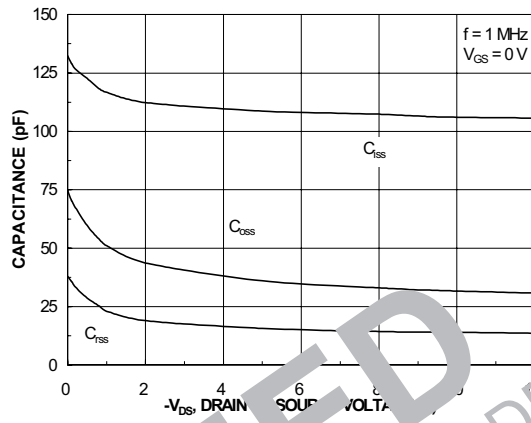


Figure 19. Capacitance vs. Drain to Source Voltage

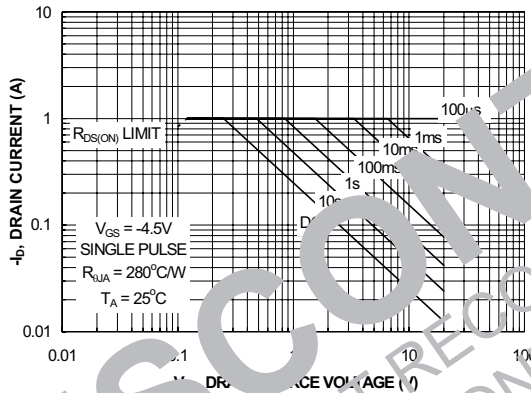


Figure 20. Maximum Safe Operating Area

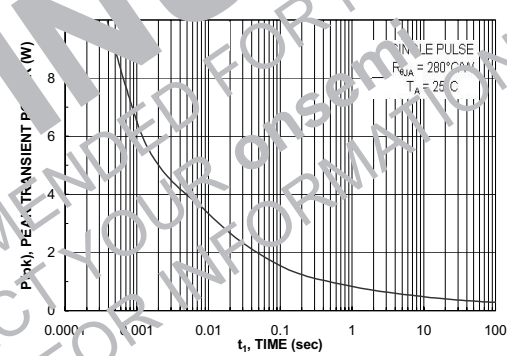


Figure 21. Single Pulse Maximum Power Dissipation

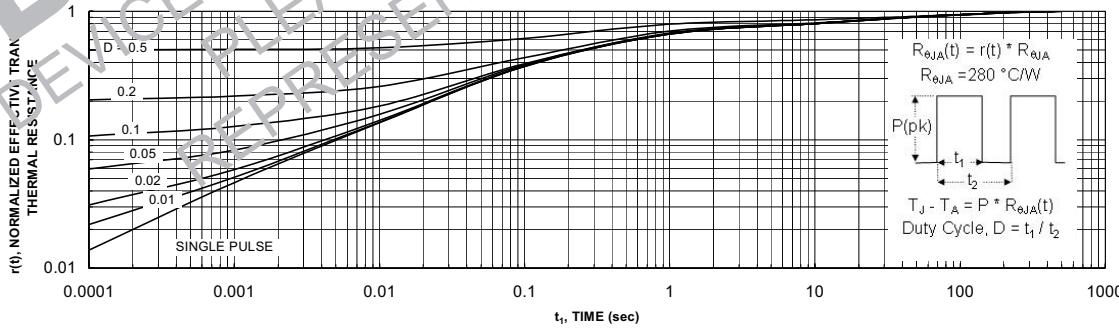
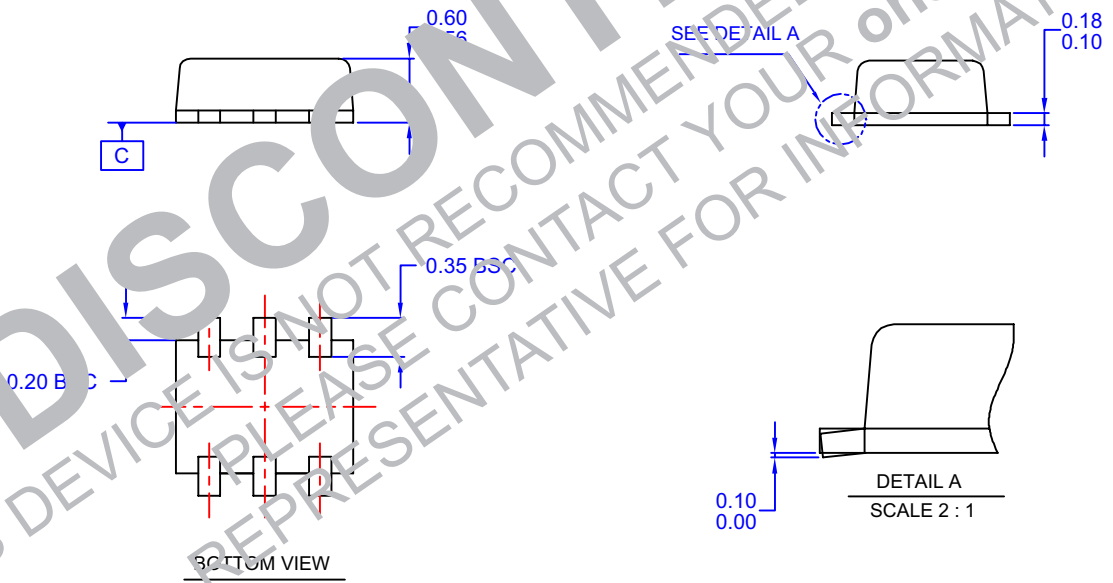
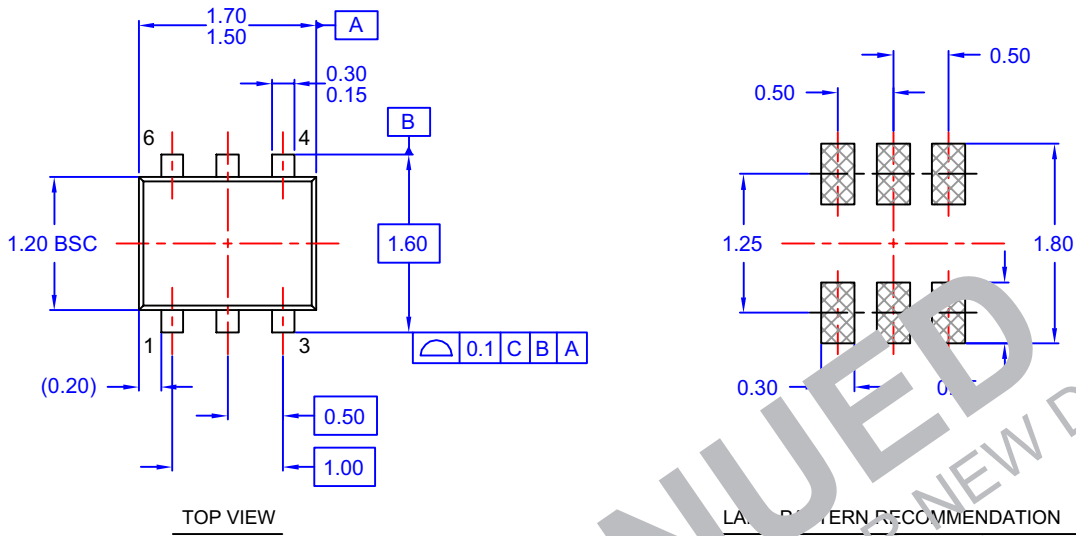


Figure 22. Transient Thermal Response Curve
 Thermal characterization performed using the conditions described in Note 1b.
 Transient thermal response will change depending on the circuit board design.

Dimensional Outline and Pad Layout



NOTES:







- A) THIS PACKAGE CONFORMS TO EIAJ SC89 PACKAGING STANDARD.
- B) ALL DIMENSIONS ARE IN MILLIMETERS.
- C) DRAWING CONFORMS TO ASME Y14.5M-1994
- D) DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH, AND TIE BAR EXTRUSIONS.

MAD06ArevA



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| CTL™ | Gmax™ | RapidConfigure™ | TinyLogic® |
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| EfficientMax™ | ISOPLANAR™ | SmartMax™ | TinyM™ |
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| FETBench™ |  | Syn™ | XS™ |
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| | Power-SPM™ | | |

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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.
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Obsolete	Not In Production	Datasheet contains specifications on a product that is discontinued by Fairchild Semiconductor. The datasheet is for reference information only.

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