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# FDME1034CZT

## Complementary PowerTrench® MOSFET

N-channel: 20 V, 3.8 A, 66 mΩ P-channel: -20 V, -2.6 A, 142 mΩ

### Features

Q1: N-Channel

- Max  $r_{DS(on)}$  = 66 mΩ at  $V_{GS} = 4.5$  V,  $I_D = 3.4$  A
- Max  $r_{DS(on)}$  = 86 mΩ at  $V_{GS} = 2.5$  V,  $I_D = 2.9$  A
- Max  $r_{DS(on)}$  = 113 mΩ at  $V_{GS} = 1.8$  V,  $I_D = 2.5$  A
- Max  $r_{DS(on)}$  = 160 mΩ at  $V_{GS} = 1.5$  V,  $I_D = 2.1$  A

Q2: P-Channel

- Max  $r_{DS(on)}$  = 142 mΩ at  $V_{GS} = -4.5$  V,  $I_D = -2.3$  A
- Max  $r_{DS(on)}$  = 213 mΩ at  $V_{GS} = -2.5$  V,  $I_D = -1.8$  A
- Max  $r_{DS(on)}$  = 331 mΩ at  $V_{GS} = -1.8$  V,  $I_D = -1.5$  A
- Max  $r_{DS(on)}$  = 530 mΩ at  $V_{GS} = -1.5$  V,  $I_D = -1.2$  A

- Low profile: 0.55 mm maximum in the new package MicroFET 1.6x1.6 Thin

- Free from halogenated compounds and antimony oxides

- HBM ESD protection level > 1600 V (Note 3)

- RoHS Compliant



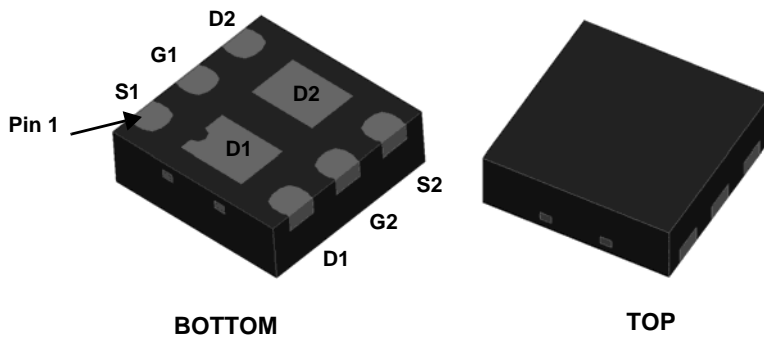
### General Description

This device is designed specifically as a single package solution for a DC/DC 'Switching' MOSFET in cellular handset and other ultra-portable applications. It features an independent N-Channel & P-Channel MOSFET with low on-state resistance for minimum conduction losses. The gate charge of each MOSFET is also minimized to allow high frequency switching directly from the controlling device.

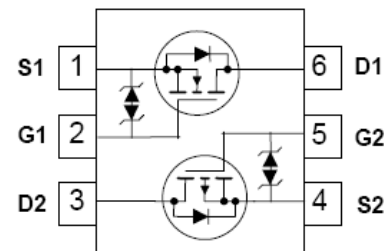
The MicroFET 1.6x1.6 Thin package offers exceptional thermal performance for its physical size and is well suited to switching and linear mode applications.

### Applications

- DC-DC Conversion
- Level Shifted Load Switch



MicroFET 1.6x1.6 Thin



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

Symbol	Parameter	Q1	Q2	Units
$V_{DS}$	Drain to Source Voltage	20	-20	V
$V_{GS}$	Gate to Source Voltage	±8	±8	V
$I_D$	Drain Current -Continuous $T_A = 25$ °C (Note 1a)	3.8	-2.6	A
	-Pulsed	6	-6	
$P_D$	Power Dissipation for Single Operation $T_A = 25$ °C (Note 1a)	1.4		W
	Power Dissipation for Single Operation $T_A = 25$ °C (Note 1b)	0.6		
$T_J, T_{STG}$	Operating and Storage Junction Temperature Range	-55 to +150		°C

### Thermal Characteristics

$R_{\theta JA}$	Thermal Resistance, Junction to Ambient (Single Operation) (Note 1a)	90	°C/W
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient (Single Operation) (Note 1b)	195	

### Package Marking and Ordering Information

Device Marking	Device	Package	Reel Size	Tape Width	Quantity
5T	FDME1034CZT	MicroFET 1.6x1.6 Thin	7"	8 mm	5000 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	$I_D = 250\text{ }\mu\text{A}$ , $V_{GS} = 0\text{ V}$ $I_D = -250\text{ }\mu\text{A}$ , $V_{GS} = 0\text{ V}$	Q1 Q2	20 -20			V
$\frac{\Delta BV_{DSS}}{\Delta T_J}$	Breakdown Voltage Temperature Coefficient	$I_D = 250\text{ }\mu\text{A}$ , referenced to $25\text{ }^\circ\text{C}$ $I_D = -250\text{ }\mu\text{A}$ , referenced to $25\text{ }^\circ\text{C}$	Q1 Q2		16 -12		mV/ $^\circ\text{C}$
$I_{DSS}$	Zero Gate Voltage Drain Current	$V_{DS} = 16\text{ V}$ , $V_{GS} = 0\text{ V}$ $V_{DS} = -16\text{ V}$ , $V_{GS} = 0\text{ V}$	Q1 Q2			1 -1	$\mu\text{A}$
$I_{GSS}$	Gate to Source Leakage Current	$V_{GS} = \pm 8\text{ V}$ , $V_{DS} = 0\text{ V}$	All			$\pm 10$	$\mu\text{A}$

#### On Characteristics

$V_{GS(th)}$	Gate to Source Threshold Voltage	$V_{GS} = V_{DS}$ , $I_D = 250\text{ }\mu\text{A}$ $V_{GS} = V_{DS}$ , $I_D = -250\text{ }\mu\text{A}$	Q1 Q2	0.4 -0.4	0.7 -0.6	1.0 -1.0	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 $25\text{ }^\circ\text{C}$	Q1 Q2		-3 2		mV/ $^\circ\text{C}$
$r_{DS(on)}$	Drain to Source On Resistance	$V_{GS} = 4.5\text{ V}$ , $I_D = 3.4\text{ A}$	Q1		55	66	m $\Omega$
		$V_{GS} = 2.5\text{ V}$ , $I_D = 2.9\text{ A}$		68	86		
		$V_{GS} = 1.8\text{ V}$ , $I_D = 2.5\text{ A}$		85	113		
		$V_{GS} = 1.5\text{ V}$ , $I_D = 2.1\text{ A}$		106	160		
		$V_{GS} = 4.5\text{ V}$ , $I_D = 3.4\text{ A}$ , $T_J = 125\text{ }^\circ\text{C}$		76	112		
		$V_{GS} = -4.5\text{ V}$ , $I_D = -2.3\text{ A}$	Q2		95	142	
		$V_{GS} = -2.5\text{ V}$ , $I_D = -1.8\text{ A}$		120	213		
		$V_{GS} = -1.8\text{ V}$ , $I_D = -1.5\text{ A}$		150	331		
		$V_{GS} = -1.5\text{ V}$ , $I_D = -1.2\text{ A}$		190	530		
		$V_{GS} = -4.5\text{ V}$ , $I_D = -2.3\text{ A}$ , $T_J = 125\text{ }^\circ\text{C}$		128	190		
$g_{FS}$	Forward Transconductance	$V_{DS} = 4.5\text{ V}$ , $I_D = 3.4\text{ A}$ $V_{DS} = -4.5\text{ V}$ , $I_D = -2.3\text{ A}$	Q1 Q2		9 7		S

#### Dynamic Characteristics

$C_{iss}$	Input Capacitance	Q1 Q2		225 305	300 405		pF
$C_{oss}$	Output Capacitance	$V_{DS} = 10\text{ V}$ , $V_{GS} = 0\text{ V}$ , $f = 1\text{ MHz}$ Q1 Q2	Q1 Q2	40 55	55 75		pF
$C_{rss}$	Reverse Transfer Capacitance	$V_{DS} = -10\text{ V}$ , $V_{GS} = 0\text{ V}$ , $f = 1\text{ MHz}$ Q1 Q2	Q1 Q2	25 50	40 75		pF

#### Switching Characteristics

$t_{d(on)}$	Turn-On Delay Time	Q1 Q2		4.5 4.7	10 10		ns	
$t_r$	Rise Time	$V_{DD} = 10\text{ V}$ , $I_D = 1\text{ A}$ , $V_{GS} = 4.5\text{ V}$ , $R_{GEN} = 6\text{ }\Omega$ Q1 Q2	Q1 Q2	2.0 4.8	10 10			
$t_{d(off)}$	Turn-Off Delay Time	$V_{DD} = -10\text{ V}$ , $I_D = -1\text{ A}$ , $V_{GS} = -4.5\text{ V}$ , $R_{GEN} = 6\text{ }\Omega$ Q1 Q2	Q1 Q2	15 33	27 53			
$t_f$	Fall Time	Q1 Q2		1.7 16	10 29			
$Q_g$	Total Gate Charge	Q1 $V_{DD} = 10\text{ V}$ , $I_D = 3.4\text{ A}$ , Q2	Q1 Q2	3 5.5	4.2 7.7			nC
$Q_{gs}$	Gate to Source Gate Charge	$V_{GS} = 4.5\text{ V}$ Q1 Q2	Q1 Q2	0.4 0.6				
$Q_{gd}$	Gate to Drain "Miller" Charge	$V_{DD} = -10\text{ V}$ , $I_D = -2.3\text{ A}$ , $V_{GS} = -4.5\text{ V}$ Q1 Q2	Q1 Q2	0.6 1.4				

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

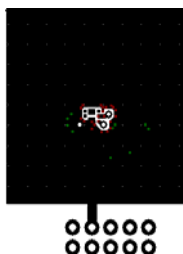
Symbol	Parameter	Test Conditions	Type	Min	Typ	Max	Units
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### Drain-Source Diode Characteristics

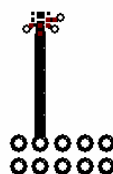
$V_{SD}$	Source to Drain Diode Forward Voltage	$V_{GS} = 0\text{ V}, I_S = 0.9\text{ A}$ (Note 2)	Q1		0.7	1.2	V
		$V_{GS} = 0\text{ V}, I_S = -0.9\text{ A}$ (Note 2)	Q2		-0.8	-1.2	
$t_{rr}$	Reverse Recovery Time	Q1 $I_F = 3.4\text{ A}, di/dt = 100\text{ A}/\mu\text{S}$	Q1		8.5	17	ns
			Q2		16	29	
$Q_{rr}$	Reverse Recovery Time	Q2 $I_F = -2.3\text{ A}, di/dt = 100\text{ A}/\mu\text{S}$	Q1		1.4	10	nC
			Q2		4.4	10	

#### Notes:

- $R_{\theta JA}$  is determined with the device mounted on a 1 in<sup>2</sup> pad 2 oz copper pad on a 1.5 x 1.5 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. 90 °C/W when mounted on a 1 in<sup>2</sup> pad of 2 oz copper.

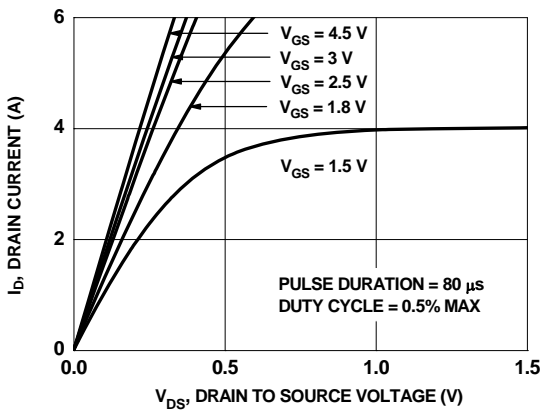


b. 195 °C/W when mounted on a minimum pad of 2 oz copper.

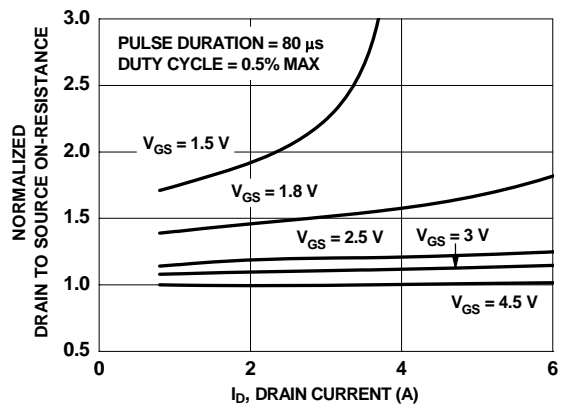
- Pulse Test: Pulse Width < 300  $\mu\text{s}$ , Duty cycle < 2.0%.

- The diode connected between the gate and source serves only as protection ESD. No gate overvoltage rating is implied.

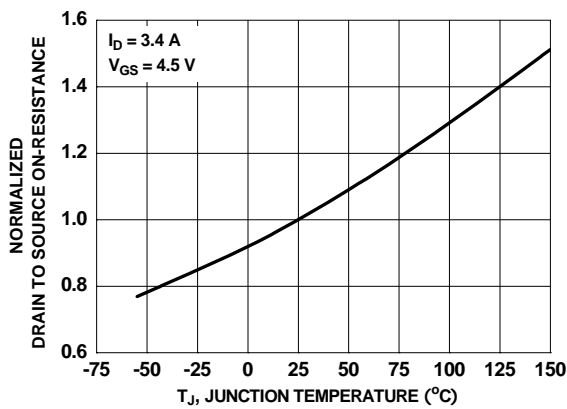
**Typical Characteristics (Q1 N-Channel)**  $T_J = 25^\circ\text{C}$  unless otherwise noted



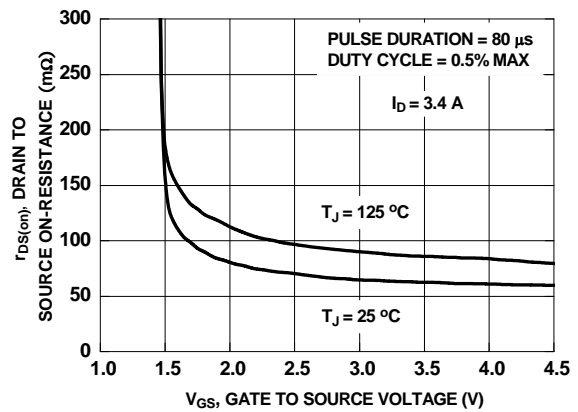
**Figure 1. On Region Characteristics**



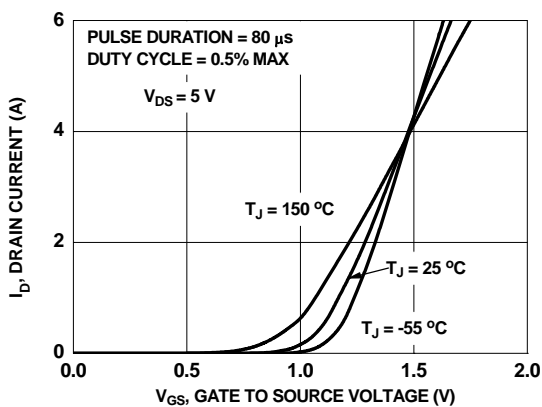
**Figure 2. Normalized On-Resistance vs Drain Current and Gate Voltage**



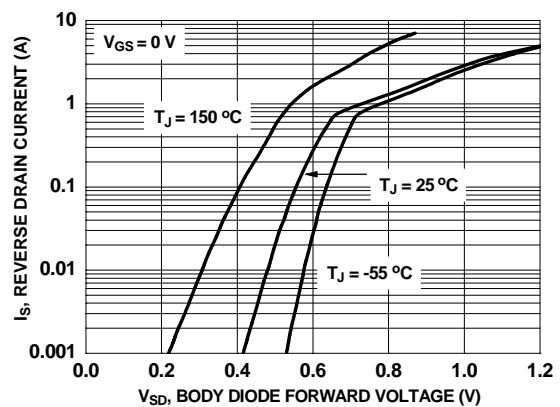
**Figure 3. Normalized On Resistance vs Junction Temperature**



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

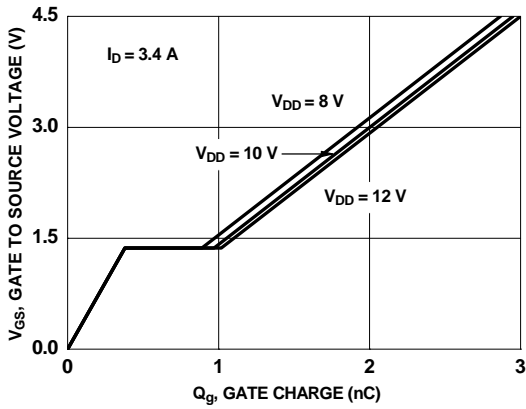


**Figure 5. Transfer Characteristics**

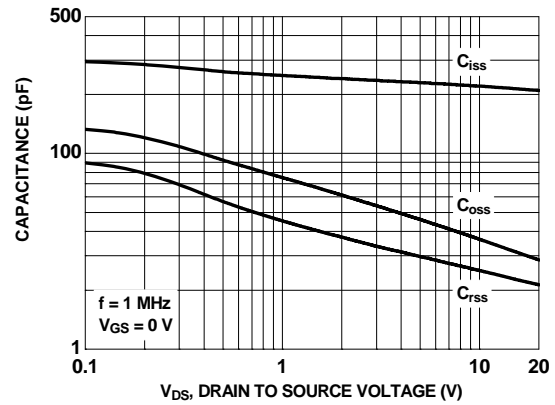


**Figure 6. Source to Drain Diode Forward Voltage vs Source Current**

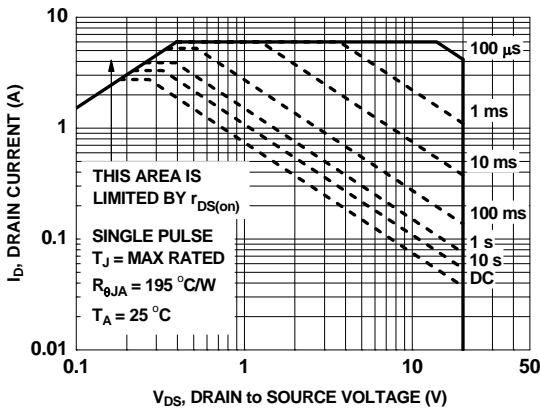
**Typical Characteristics (Q1 N-Channel)**  $T_J = 25^\circ\text{C}$  unless otherwise noted



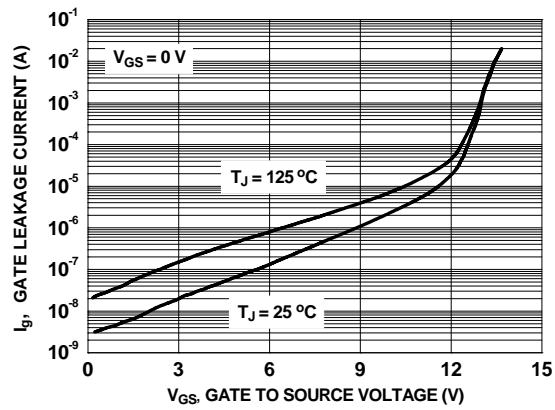
**Figure 7. Gate Charge Characteristics**



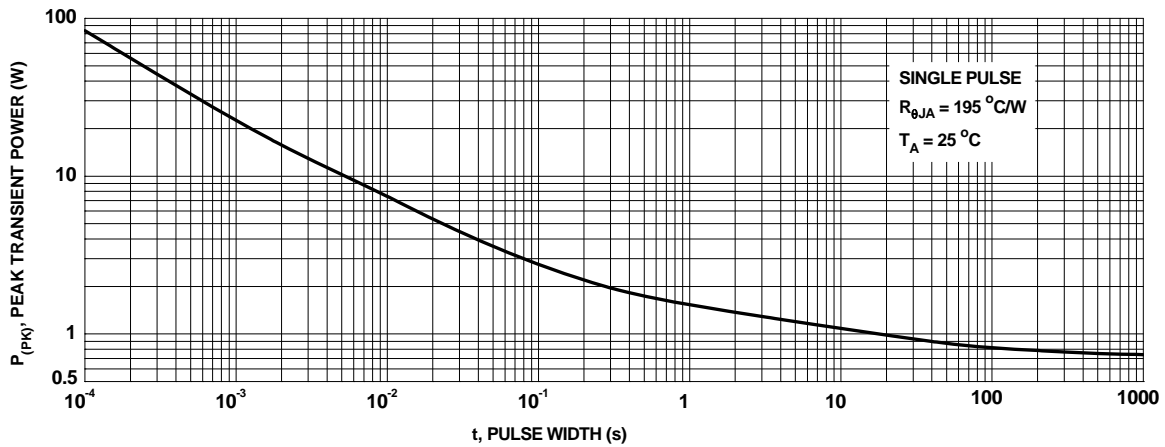
**Figure 8. Capacitance vs Drain to Source Voltage**



**Figure 9. Forward Bias Safe Operating Area**

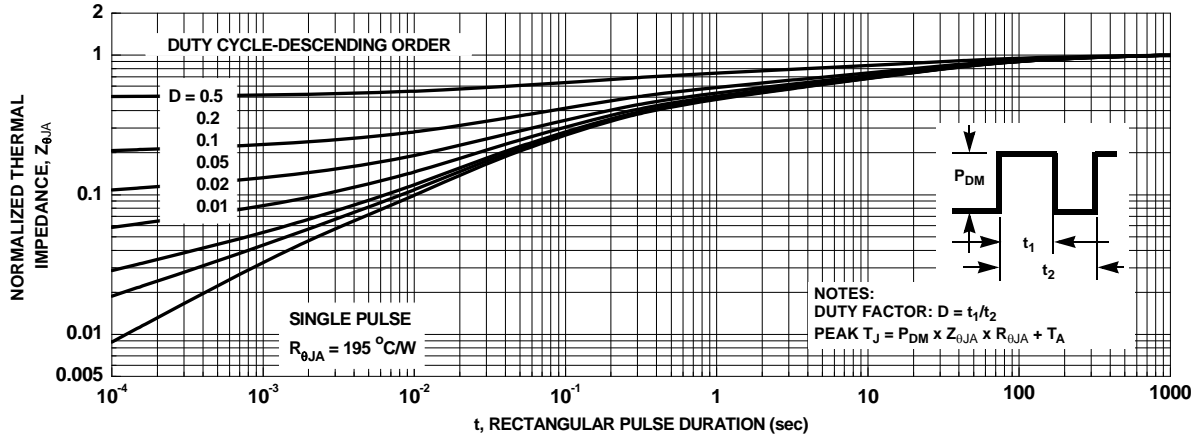


**Figure 10. Gate Leakage Current vs Gate to Source Voltage**



**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 P-Channel)**  $T_J = 25\text{ }^\circ\text{C}$  unless otherwise noted

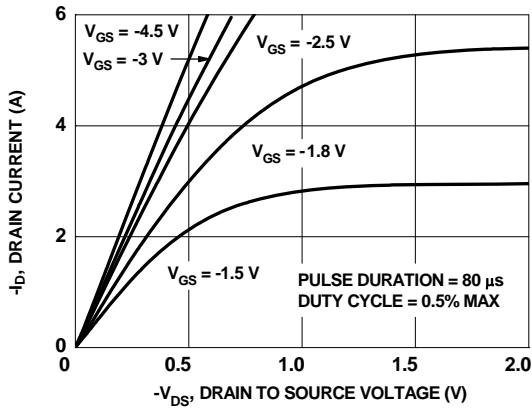


Figure 13. On-Region Characteristics

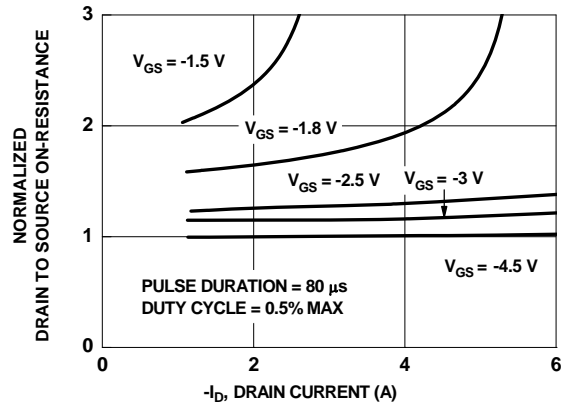


Figure 14. Normalized on-Resistance vs Drain Current and Gate Voltage

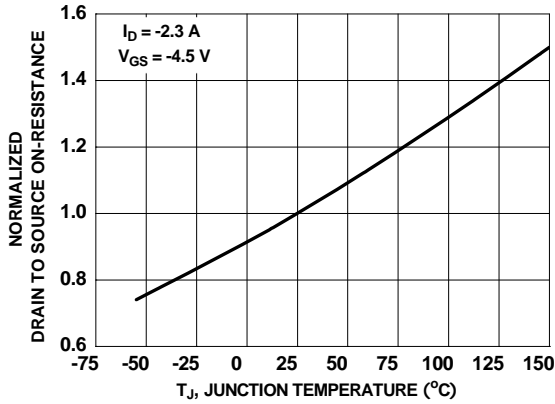


Figure 15. Normalized On-Resistance vs Junction Temperature

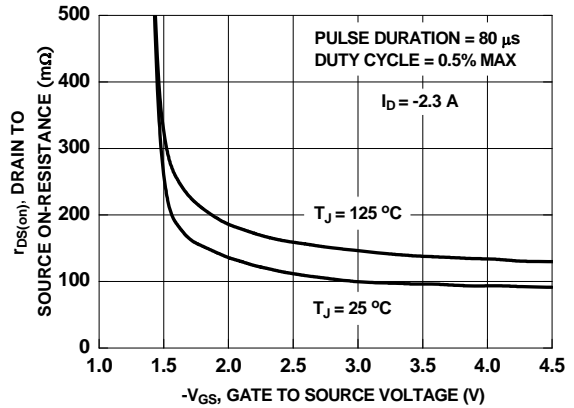


Figure 16. On-Resistance vs Gate to Source Voltage

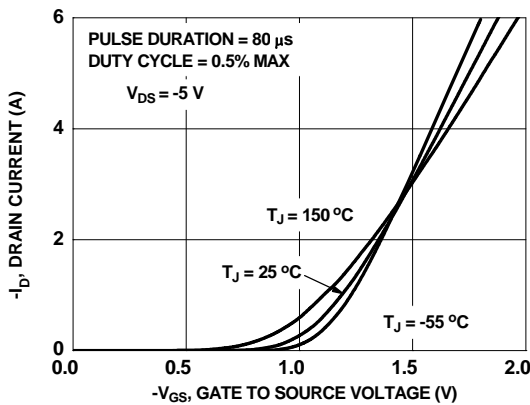


Figure 17. Transfer Characteristics

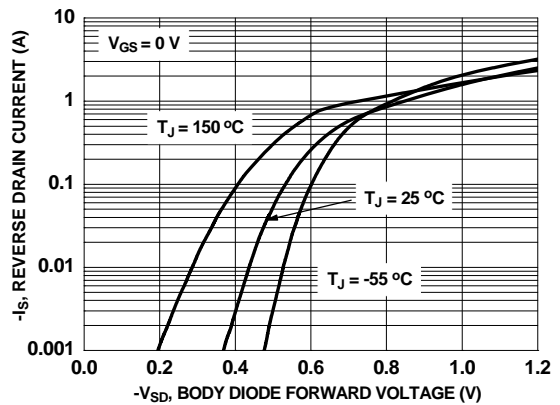
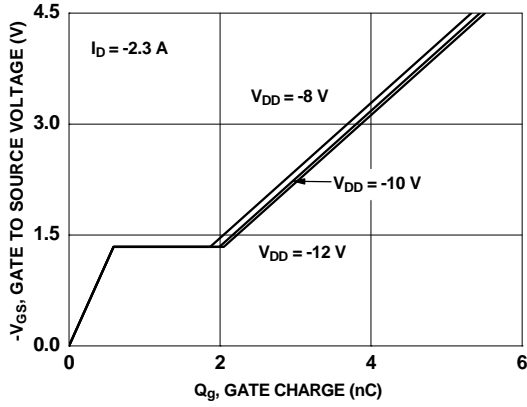


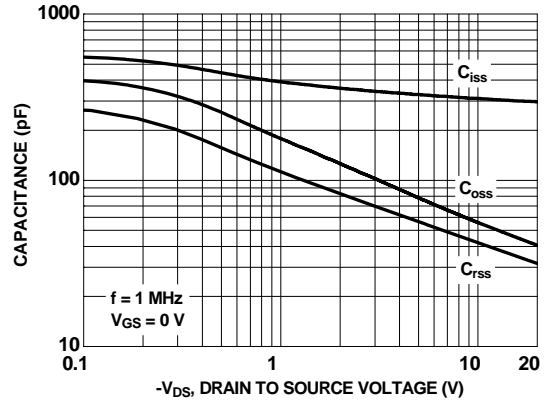
Figure 18. Source to Drain Diode Forward Voltage vs Source Current



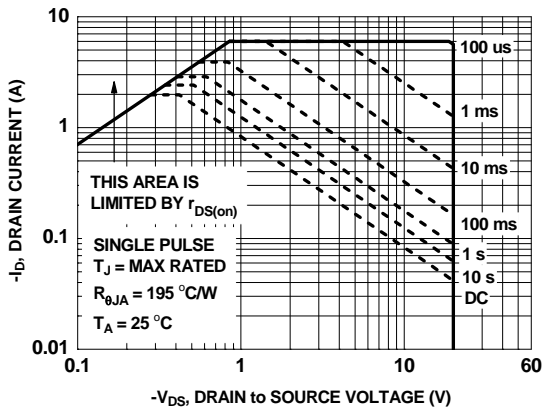
**Typical Characteristics (Q2 P-Channel)  $T_J = 25^\circ\text{C}$  unless otherwise noted**



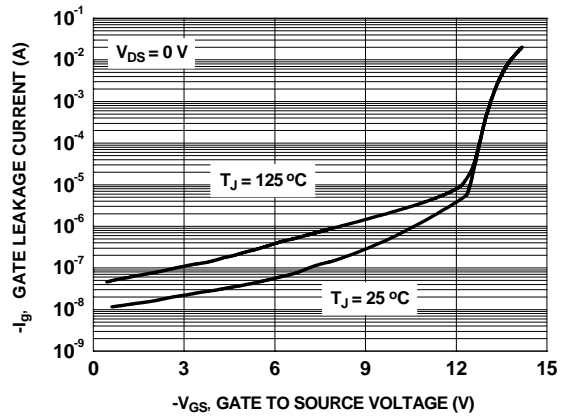
**Figure 19. Gate Charge Characteristics**



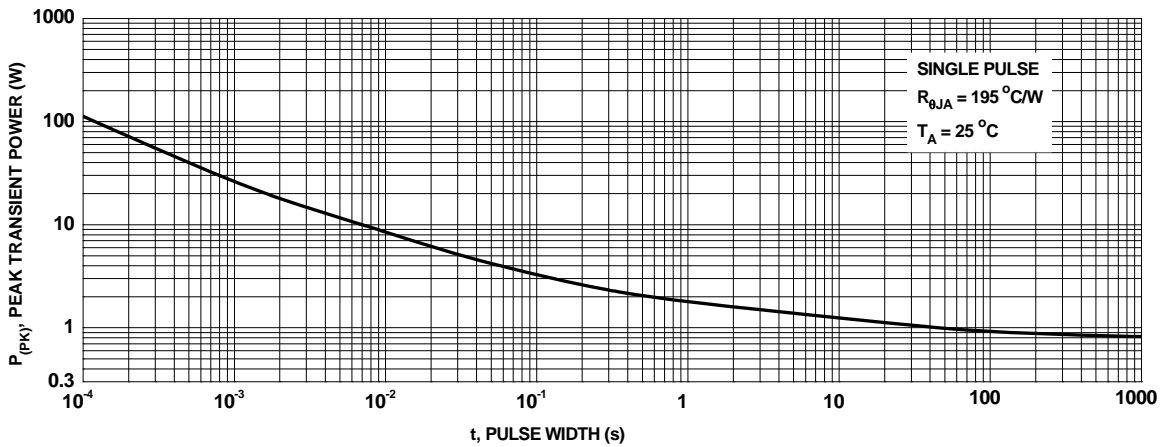
**Figure 20. Capacitance vs Drain to Source Voltage**



**Figure 21. Forward Bias Safe Operating Area**

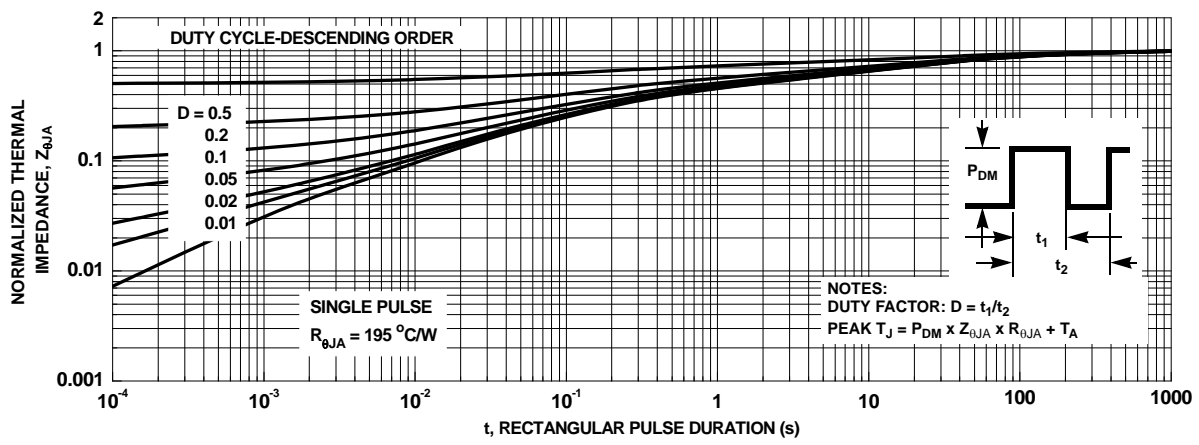


**Figure 22. Gate Leakage Current vs Gate to Source Voltage**



**Fig 23. Single Pulse Maximum Power Dissipation**

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



**Figure 24. Junction-to-Ambient Transient Thermal Response Curve**





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Rev. I48

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