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ON Semiconductor®

FQD8P10TM-F085

100V P-Channel MOSFET

General Description

These P-Channel enhancement mode power field effect transistors are produced using ON Semiconductor's proprietary, planar stripe, DMOS technology.

This advanced technology has been especially tailored to minimize on-state resistance, provide superior switching performance, and withstand high energy pulse in the avalanche and commutation mode. These devices are well suited for low voltage applications such as audio amplifier, high efficiency switching DC/DC converters, and DC motor control.

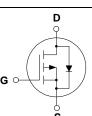
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D-PAK

Features

- -6.6A, -100V, R_{DS(on)} = 0.53Ω @V_{GS} = -10 V
- Low gate charge (typical 12 nC)
- Low Crss (typical 30 pF)
- Fast switching
- 100% avalanche tested
- Improved dv/dt capability
- Qualified to AEC Q101
- RoHS Compliant





Absolute Maximum Ratings T_C = 25°C unless otherwise noted

Symbol	Parameter		Ratings		Units
V _{DSS}	Drain-Source Voltage		-100		V
I _D	Drain Current - Continuous (T _C = 25°	°C)	-6.6		А
	- Continuous (T _C = 100°C)		-4	Α	
I _{DM}	Drain Current - Pulsed	(Note 1)	-26	6.4	Α
V _{GSS}	Gate-Source Voltage		±;	30	V
E _{AS}	Single Pulsed Avalanche Energy	(Note 2)	15	50	mJ
I _{AR}	Avalanche Current	(Note 1)	-6	.6	А
E _{AR}	Repetitive Avalanche Energy	(Note 1)	4.	.4	mJ
dv/dt	Peak Diode Recovery dv/dt	(Note 3)	-6	.0	V/ns
P _D	Power Dissipation (T _A = 25°C) *		2.5		W
	Power Dissipation ($T_C = 25^{\circ}C$)		4	4	W
	- Derate above 25°C		0.3	35	W/°C
T _J , T _{STG}	Operating and Storage Temperature Rat	nge	-55 to	+150	°C
ΤL	Maximum lead temperature for soldering purposes, 1/8" from case for 5 seconds		300		°C
Thermal	Characteristics				
Symbol	Parameter		Тур	Max	Units
$R_{\theta JC}$	Thermal Resistance, Junction-to-Case			2.84	°C/W

* When mounted on the minimum pad size recommended (PCB Mount)

Thermal Resistance, Junction-to-Ambient *

Thermal Resistance, Junction-to-Ambient

 $R_{\theta JA}$

 $R_{\theta JA}$

°C/W

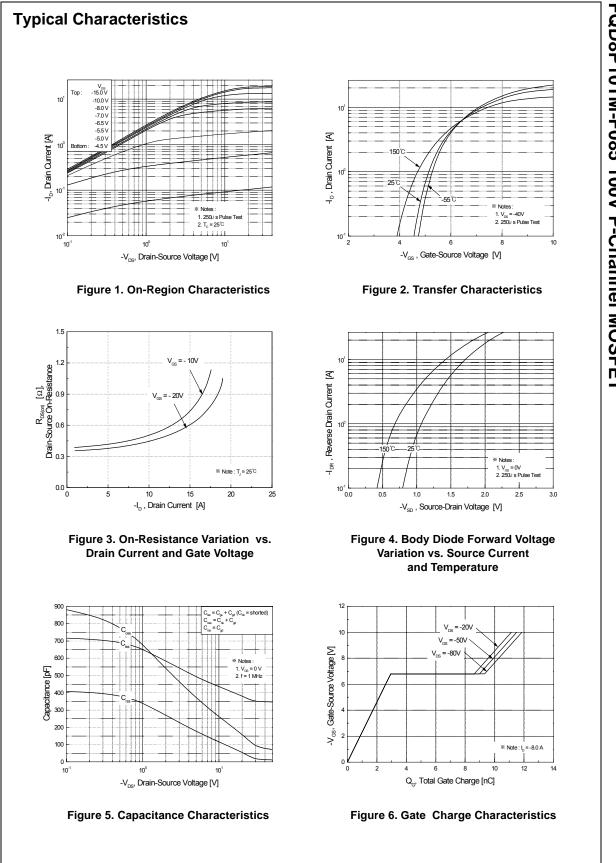
°C/W

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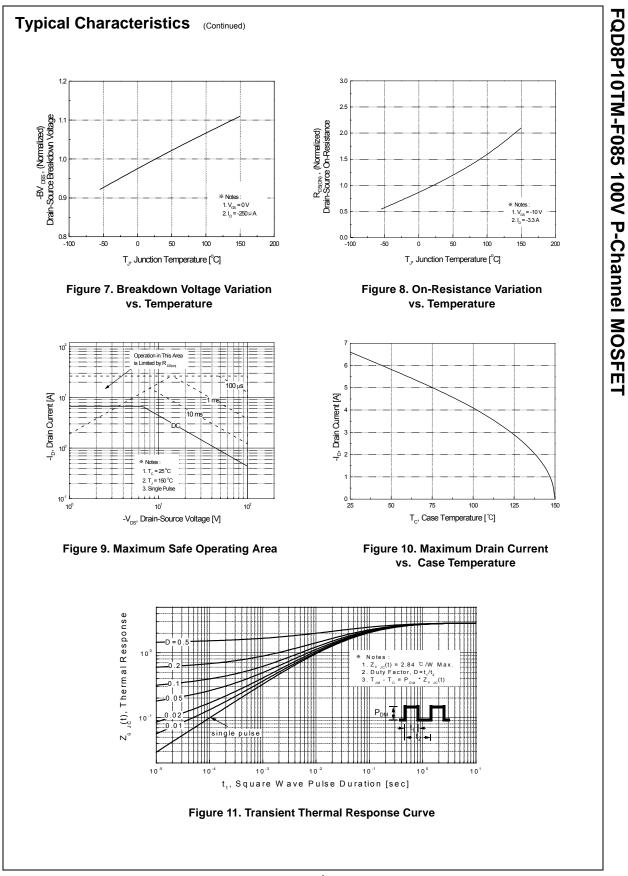
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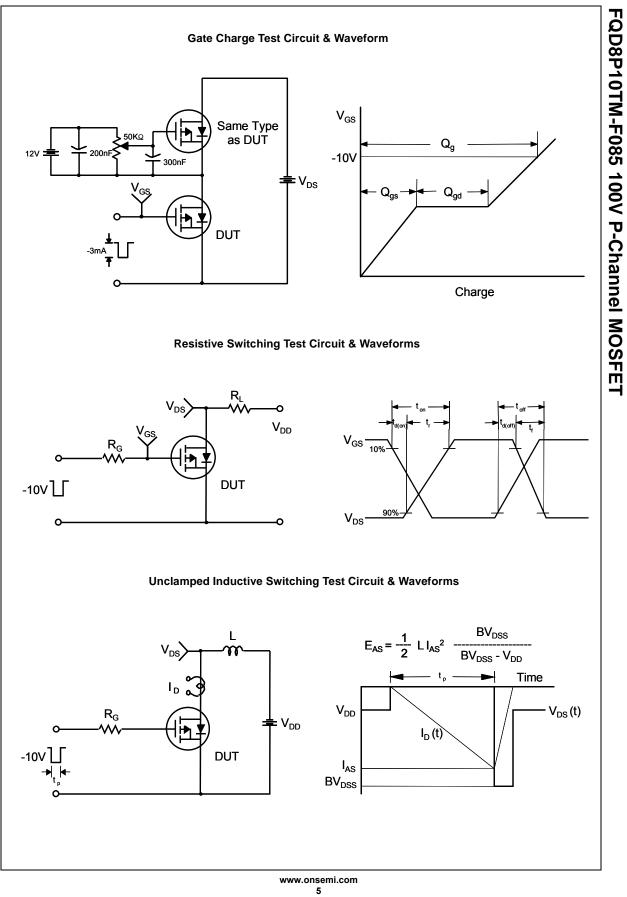
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Symbol	Parameter	Test Conditions	Min	Тур	Max	Units
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $	BV _{DSS}		V _{GS} = 0 V, I _D = -250 μA	-100			V
Zero Gate Voltage Drain Current $V_{DS} = -80 \text{ V}, \text{C} = 125^{\circ}\text{C}$ 10 μA SSSFGate-Body Leakage Current, Forward $V_{GS} = -30 \text{ V}, V_{DS} = 0 \text{ V}$ 100nASSSRGate-Body Leakage Current, Reverse $V_{GS} = 30 \text{ V}, V_{DS} = 0 \text{ V}$ 100nAOn CharacteristicsGS(th)Gate Threshold Voltage $V_{DS} = V_{GS}, \text{ Ip} = -250 \mu \text{A}$ -2.04.0VDS(on)Static Drain-Source On-Resistance $V_{GS} = -10 \text{ V}, \text{ Ip} = -3.3 \text{ A}$ 0.410.53 Ω FSForward Transconductance $V_{DS} = -40 \text{ V}, \text{ Ip} = -3.3 \text{ A}$ 0.410.53 Ω FranceV_{DS} = -40 \text{ V}, \text{ Ip} = -3.3 \text{ A}0.410.53 Ω FranceV_{DS} = -25 \text{ V}, V_{GS} = 0 \text{ V}, \text{ Ip} = -3.3 \text{ A}0.410.53 Ω FranceV_{DS} = -25 \text{ V}, V_{GS} = 0 \text{ V}, \text{ Ip} = -3.3 \text{ A}0.40pFMynamic CharacteristicsF100 \text{ MHz}120 \text{ 155 pF}FrassReverse Transfer CapacitanceV_{DS} = -50 \text{ V}, \text{ Ip} = -8.0 \text{ A}, \text{110 230 ns(off)Turn-On Rise TimeN35 80 nsns(off)Turn-Off Fall TimeV_{DS} = -80 \text{ V}, \text{ Ip} = -8.0 \text{ A}, \text{12 15 nC(gate Gate-Drain ChargeV_{DS} = -10 \text{ V}3.0nC(gate Gate-Drain ChargeV_{DS} = -10 \text{ V}<	ABV _{DSS}		$I_D = -250 \ \mu$ A, Referenced to 25°C		-0.1		V/°C
VDS = -80 V, I_C = 125 °C 10 μA SSSF Gate-Body Leakage Current, Forward V _{GS} = -30 V, V _{DS} = 0 V 100 nA SSR Gate-Body Leakage Current, Reverse V _{GS} = 30 V, V _{DS} = 0 V 100 nA On Characteristics SG(h) Gate Threshold Voltage V _{DS} = V _{GS} , I _D = -250 μA -2.0 -4.0 V DS(on) Static Drain-Source On-Resistance V _{DS} = -10 V, I _D = -3.3 A 0.41 0.53 Ω FS Forward Transconductance V _{DS} = -25 V, V _{GS} = 0 V, I = 4.1 S Vpnamic Characteristics f = 1.0 MHz 360 470 pF rss Notul Capacitance f = 1.0 MHz 120 155 pF rss Num-On Delay Time V _{DS} = -25 V, V _{GS} = 0 V, I = - 110 30 ns (off) Turn-On Rise Time N 10 20	DSS		V _{DS} = -100 V, V _{GS} = 0 V		-	-1	μA
SisserGate-Body Leakage Current, Reverse $V_{GS} = 30 \text{ V}, V_{DS} = 0 \text{ V}$ 100nAOn CharacteristicsGS(th)Gate Threshold Voltage $V_{DS} = V_{GS}, I_D = -250 \ \mu\text{A}$ -2.04.0VDS(on)Static Drain-Source On-Resistance $V_{GS} = -10 \ V, I_D = -3.3 \ A$ 0.410.53 Ω EsForward Transconductance $V_{DS} = -40 \ V, I_D = -3.3 \ A$ 0.410.53 Ω Pynamic CharacteristicsissInput Capacitance $V_{DS} = -25 \ V, V_{GS} = 0 \ V, I_D = -3.3 \ A$ 120155pFrssReverse Transfer Capacitancef = 1.0 \ MHz3040pFwitching Characteristics(on)Turn-On Bias Time Turn-On Rise Time $V_{DD} = -50 \ V, I_D = -8.0 \ A, I_D = -3.3 \ A$ 110230ns(off)Turn-On Rise Time Turn-Off Fall Time $V_{DS} = -80 \ V, I_D = -8.0 \ A, I_D = -3.0 $		Zero Gate Voltage Drain Current	V _{DS} = -80 V, T _C = 125°C			-10	μA
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GS(th)Gate Threshold Voltage $V_{DS} = V_{GS}$, $I_D = -250 \ \mu A$ -2.04.0VDS(on)Static Drain-Source On-Resistance $V_{GS} = -10 \ V$, $I_D = -3.3 \ A$ 0.410.53 Ω rsForward Transconductance $V_{DS} = -40 \ V$, $I_D = -3.3 \ A$ 4.1StissInput Capacitance $V_{DS} = -40 \ V$, $I_D = -3.3 \ A$ (Note 4)4.1S bynamic Characteristics tissInput Capacitance $V_{DS} = -25 \ V$, $V_{GS} = 0 \ V$, f = 1.0 MHz $360 \ 470 \ PF$ $120 \ 155 \ PF$ rsReverse Transfer Capacitancetwitching Characteristics(on)Turn-On Delay Time Turn-On Rise Time $V_{DD} = -50 \ V$, $I_D = -8.0 \ A$, $R_G = 25 \ \Omega$ $11 \ 30 \ ns$ (off)Turn-Off Fall Time $V_{DS} = -80 \ V$, $I_D = -8.0 \ A$, $R_G = 25 \ \Omega$ $120 \ 50 \ ns$ (off)Turn-Off Fall Time $V_{DS} = -80 \ V$, $I_D = -8.0 \ A$, $R_G = 25 \ \Omega$ $12 \ 15 \ nC$ (off)Turn-Off Fall Time $V_{OS} = -10 \ V$ $3.0 \ \ nC$ $ \ 3.0 \ \ nC$ (gsGate-Drain Charge $V_{GS} = -10 \ V$ $6.4 \ \ nC$ $ \ 6.6 \ A$ (Note 4, 5) $6.4 \ \ nC$ $ \ 6.6 \ A$ $ \ 6.6 \ A$	On Cha	racteristics					
	V _{GS(th)}		$V_{DS} = V_{GS}, I_{D} = -250 \ \mu A$	-2.0		-4.0	V
OpenationDescriptionDescriptionDescriptionOpenationInput Capacitance $V_{DS} = -25 \text{ V}, V_{GS} = 0 \text{ V},$ f = 1.0 MHz360470pFissInput Capacitancef = 1.0 MHz120155pFissReverse Transfer Capacitancef = 1.0 MHz3040pFwitching Characteristics(on)Turn-On Delay Time $V_{DD} = -50 \text{ V}, I_D = -8.0 \text{ A},$ $R_G = 25 \Omega$ 1130ns(off)Turn-On Rise Time $R_G = 25 \Omega$ 110230ns(off)Turn-Off Fall Time(Note 4, 5)3580nsgTotal Gate Charge $V_{DS} = -80 \text{ V}, I_D = -8.0 \text{ A},$ $V_{GS} = -10 \text{ V}$ 1215nCgdGate-Drain Charge $V_{DS} = -80 \text{ V}, I_D = -8.0 \text{ A},$ $V_{GS} = -10 \text{ V}$ 3.0nC(Note 4, 5)6.4nCorallGate-Drain Charge(Note 4, 5)6.4nCorallGate-Drain ChargeCharacteristics and Maximum Ratings6.6A	R _{DS(on)}		V _{GS} = -10 V, I _D = -3.3 A		0.41	0.53	Ω
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Turn-Off Fall Time(Note 4, 5)3580ns g_g Total Gate Charge $V_{DS} = -80 \text{ V}, I_D = -8.0 \text{ A},$ $V_{GS} = -10 \text{ V}$ 1215nC g_g Gate-Source Charge $V_{GS} = -10 \text{ V}$ (Note 4, 5)3.0nC g_d Gate-Drain Charge $V_{GS} = -10 \text{ V}$ (Note 4, 5)6.4nCOrain-Source Diode Characteristics and Maximum Ratings g_d Maximum Continuous Drain-Source Diode Forward Current6.6A			$R_{G} = 25 \Omega$				-
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Antiperation Antiperation Antiperation Antiperation Antiperation Antiperation Antiperation Antiperation	•	Gate-Drain Charge			6.4		nC
M Maximum Pulsed Drain-Source Diode Forward Current26.4 A	S	Maximum Continuous Drain-Source Diode Forward Current					
r_{sp} Drain-Source Diode Forward Voltage $V_{cs} = 0$ V $l_s = -6.6$ A $$ $$ -4.0 V							
	Q _{rr}	•					
	Q _{gs} Q _{gd} Drain-S I _S I _{SM} V _{SD}	Gate-Drain Charge ource Diode Characteristics ar Maximum Continuous Drain-Source Dio	V _{GS} = -10 V (Note 4, 5) Ad Maximum Ratings ode Forward Current		6.4 	-26.4	
SD Drain-Source Diode Forward Voltage $V_{CS} = 0$ V $I_S = -6.6$ A	rr				98		ns
		•					
$V_{GS} = 0 V, I_S = -8.0 A,98 ns$			1	1		1	
	L = 5.2mH, I, I _{SD} \leq -8.0A,	ating : Pulse width limited by maximum junction temper $A_S = -6.6A$, $V_{DD} = -25V$, $R_G = 25 \Omega$, Starting $T_J = 25^{\circ}C$ $di/dt \leq 300A/\mu_s$, $V_{DD} \leq BV_{DSS}$, Starting $T_J = 25^{\circ}C$ Pulse width $\leq 300\mu_s$, Duty cycle $\leq 2\%$ dependent of operating temperature					

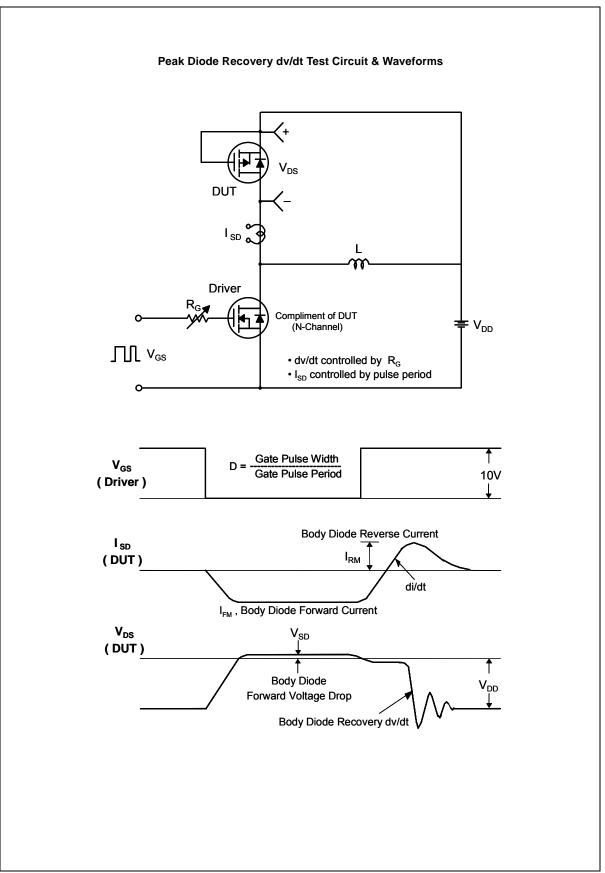


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