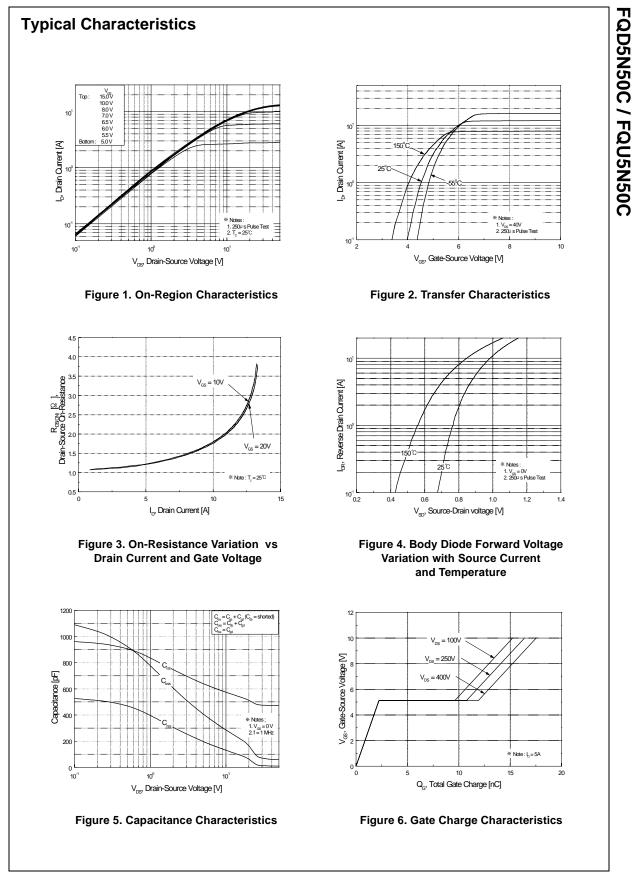


Thermal Characteristics

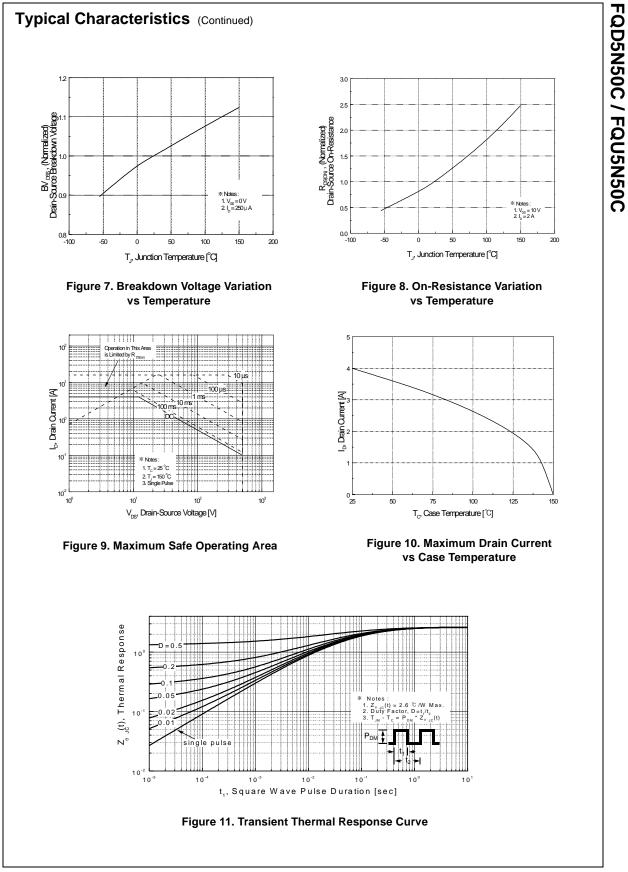
Symbol	Parameter	Тур	Max	Units
$R_{ ext{ heta}JC}$	Thermal Resistance, Junction-to-Case	-	2.6	°C/W
$R_{\theta JA}$	Thermal Resistance, Junction-to-Ambient *	-	50	°C/W
$R_{\theta JA}$	Thermal Resistance, Junction-to-Ambient	-	110	°C/W

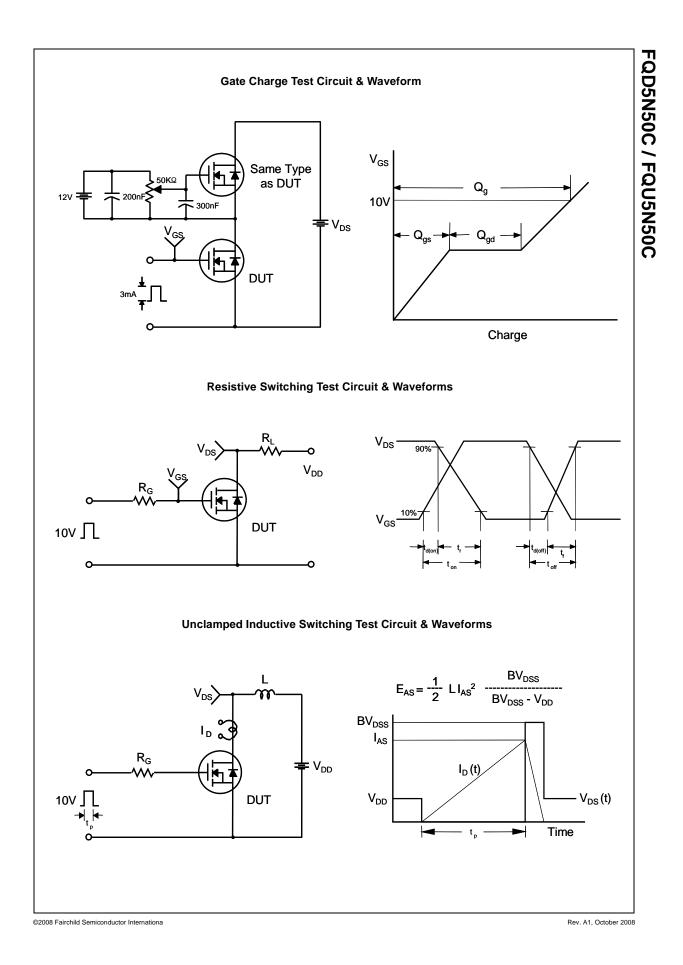
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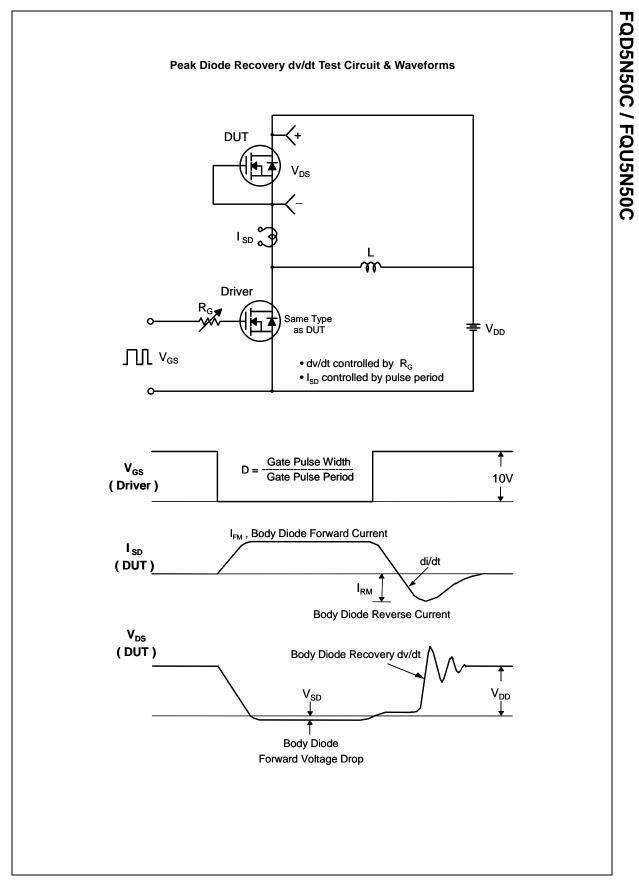
Acteristics Drain-Source Breakdown Voltage Breakdown Voltage Temperature Coefficient Zero Gate Voltage Drain Current Gate-Body Leakage Current, Forward Gate-Body Leakage Current, Reverse	$\begin{split} V_{GS} &= 0 \ V, \ I_D = 250 \ \mu A \\ I_D &= 250 \ \mu A, \ Referenced \ to \ 25^\circ C \\ V_{DS} &= 500 \ V, \ V_{GS} = 0 \ V \\ V_{DS} &= 400 \ V, \ T_C = 125^\circ C \\ V_{GS} &= 30 \ V, \ V_{DS} = 0 \ V \\ V_{GS} &= -30 \ V, \ V_{DS} = 0 \ V \end{split}$	500 	 0.5 		V
Drain-Source Breakdown Voltage Breakdown Voltage Temperature Coefficient Zero Gate Voltage Drain Current Gate-Body Leakage Current, Forward Gate-Body Leakage Current, Reverse	$I_{D} = 250 \ \mu\text{A}, \text{ Referenced to } 25^{\circ}\text{C}$ $V_{DS} = 500 \ \text{V}, \ V_{GS} = 0 \ \text{V}$ $V_{DS} = 400 \ \text{V}, \ T_{C} = 125^{\circ}\text{C}$ $V_{GS} = 30 \ \text{V}, \ V_{DS} = 0 \ \text{V}$		0.5		
Breakdown Voltage Temperature Coefficient Zero Gate Voltage Drain Current Gate-Body Leakage Current, Forward Gate-Body Leakage Current, Reverse	$I_{D} = 250 \ \mu\text{A}, \text{ Referenced to } 25^{\circ}\text{C}$ $V_{DS} = 500 \ \text{V}, \ V_{GS} = 0 \ \text{V}$ $V_{DS} = 400 \ \text{V}, \ T_{C} = 125^{\circ}\text{C}$ $V_{GS} = 30 \ \text{V}, \ V_{DS} = 0 \ \text{V}$		0.5		
Zero Gate Voltage Drain Current Gate-Body Leakage Current, Forward Gate-Body Leakage Current, Reverse	$V_{DS} = 400 \text{ V}, T_{C} = 125^{\circ}\text{C}$ $V_{GS} = 30 \text{ V}, V_{DS} = 0 \text{ V}$				V/°C
Gate-Body Leakage Current, Forward Gate-Body Leakage Current, Reverse	$V_{DS} = 400 \text{ V}, T_{C} = 125^{\circ}\text{C}$ $V_{GS} = 30 \text{ V}, V_{DS} = 0 \text{ V}$			1	μA
Gate-Body Leakage Current, Reverse	$V_{GS} = 30 \text{ V}, V_{DS} = 0 \text{ V}$			10	μΑ
Gate-Body Leakage Current, Reverse				100	nA
octeristics				-100	nA
ICLENSLICS					
Gate Threshold Voltage				4.0	V
Static Drain-Source		2.0			Ω
Dn-Resistance					
orward Iransconductance	$V_{DS} = 40 \text{ V}, I_D = 2.0\text{A}$ (Note 4)		5.2		S
Characteristics					
nput Capacitance	$V_{DS} = 25 V_{1} V_{CS} = 0 V_{2}$		480	625	pF
Dutput Capacitance	f = 1.0 MHz		80	105	pF
Reverse Transfer Capacitance			15	20	pF
g Characteristics			12	35	ns
urn-On Rise Time			46	100	ns
urn-Off Delay Time	$R_{G} = 25.02$		50	110	ns
Furn-Off Fall Time	(Note 4, 5)		48	105	ns
otal Gate Charge	N/ 400 X/ 1 54		4.0		
	$V_{D0} = 400 V_{1} D = 5A_{1}$		18	24	nC
Gate-Source Charge	$V_{DS} = 400 \text{ V}, \text{ I}_{D} = 5\text{A},$ $V_{GS} = 10 \text{ V}$		18 2.2		nC
	$V_{DS} = 400 \text{ V}, \text{ I}_{D} = 5\text{A},$ $V_{GS} = 10 \text{ V}$ (Note 4, 5)				
Sate-Source Charge	V _{GS} = 10 V (Note 4, 5) nd Maximum Ratings		2.2		nC
Gate-Source Charge Gate-Drain Charge urce Diode Characteristics ar Maximum Continuous Drain-Source Diode Maximum Pulsed Drain-Source Diode F	V _{GS} = 10 V (Note 4, 5) nd Maximum Ratings de Forward Current forward Current		2.2 9.7		nC nC
Gate-Source Charge Gate-Drain Charge urce Diode Characteristics ar Maximum Continuous Drain-Source Diode Maximum Pulsed Drain-Source Diode F	$V_{GS} = 10 V$ (Note 4, 5) (2.2 9.7		nC nC A
Gate-Source Charge Gate-Drain Charge urce Diode Characteristics ar Maximum Continuous Drain-Source Diode Maximum Pulsed Drain-Source Diode F	V _{GS} = 10 V (Note 4, 5) nd Maximum Ratings de Forward Current forward Current		2.2 9.7	 4 16	nC nC A A
	In-Resistance orward Transconductance Characteristics Input Capacitance Intervention Capacitance	Pro-Resistance $V_{GS} = 10$ V, $I_D = 2.0A$ orward Transconductance $V_{DS} = 40$ V, $I_D = 2.0A$ (Note 4) Characteristics V V Description Output Capacitance V Description Descripticance Description Descri	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	In-Resistance $V_{GS} = 10 \text{ V}, \text{ I}_D = 2.0 \text{ A}$ 1.14orward Transconductance $V_{DS} = 40 \text{ V}, \text{ I}_D = 2.0 \text{ A}$ (Note 4)5.2Characteristicsmut Capacitance $V_{DS} = 25 \text{ V}, \text{ V}_{GS} = 0 \text{ V},$ f = 1.0 MHz480everse Transfer Capacitancef = 1.0 MHz15 Characteristics urn-On Delay Time $V_{DD} = 250 \text{ V}, \text{ I}_D = 5A,$ $R_G = 25 \Omega$ 12urn-Off Delay Time $N_{DD} = 250 \text{ V}, \text{ I}_D = 5A,$ $R_G = 25 \Omega$ 50(Note 4, 5)50	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

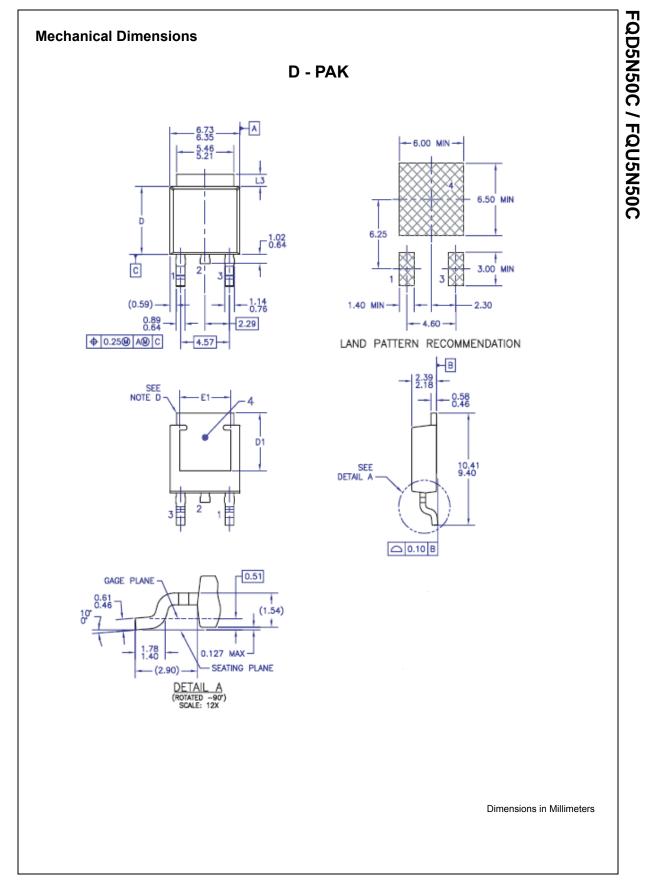


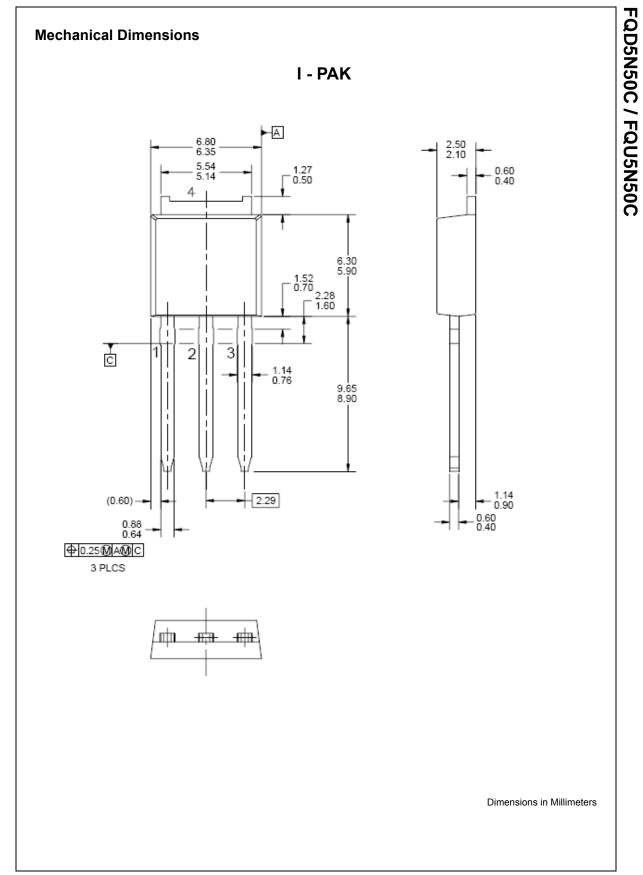
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