

Thermal Characteristics

1/8" from case for 5 seconds

Thermal Resistance, Junction-to-Case

Thermal Resistance, Junction-to-Ambient *

Thermal Resistance, Junction-to-Ambient

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

Parameter

 T_L

Symbol

 $R_{\theta JC}$

 $R_{\theta JA}$

 $R_{\theta JA}$

Rev. A3, October 2008

°C

Units

°C/W

°C/W

°C/W

300

Max

3.29

50

110

Тур

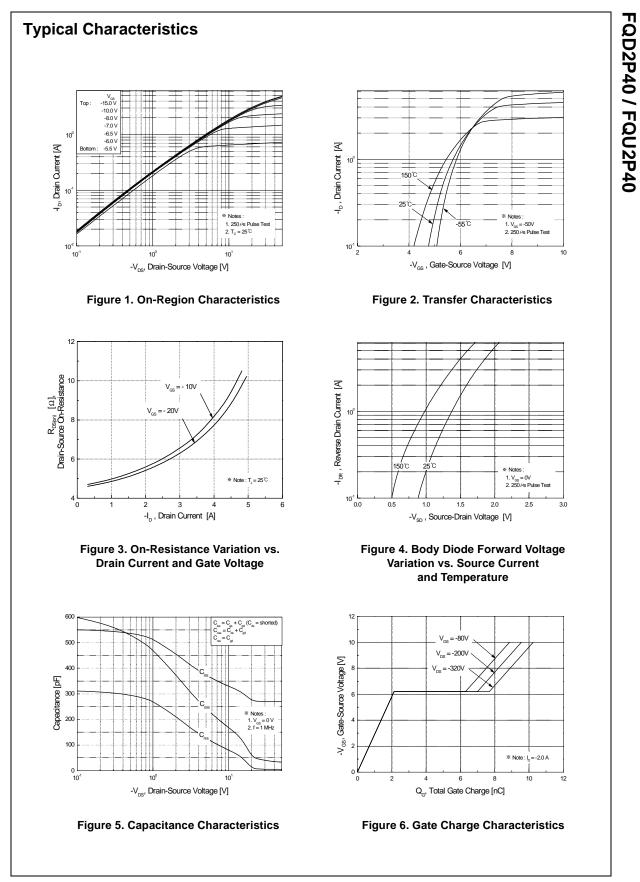
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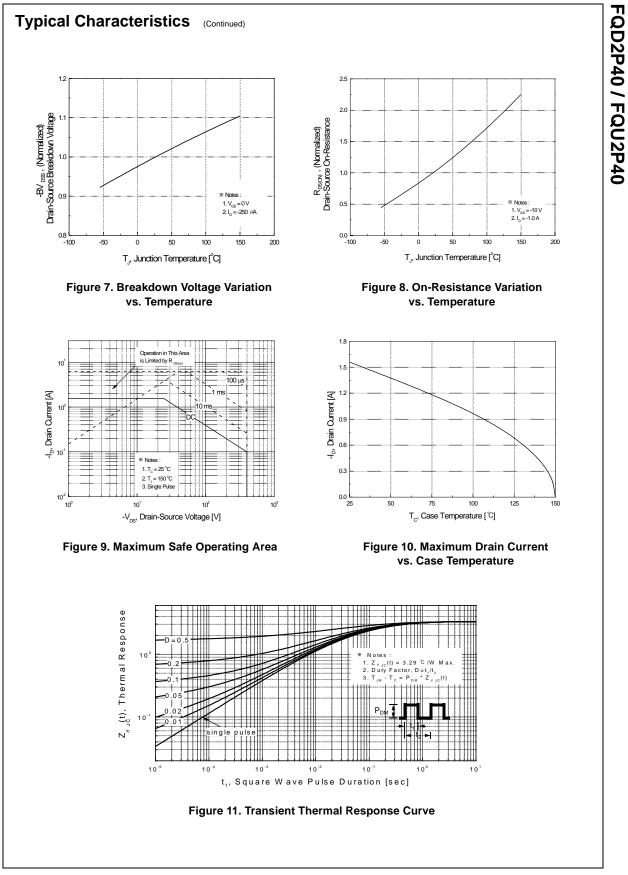
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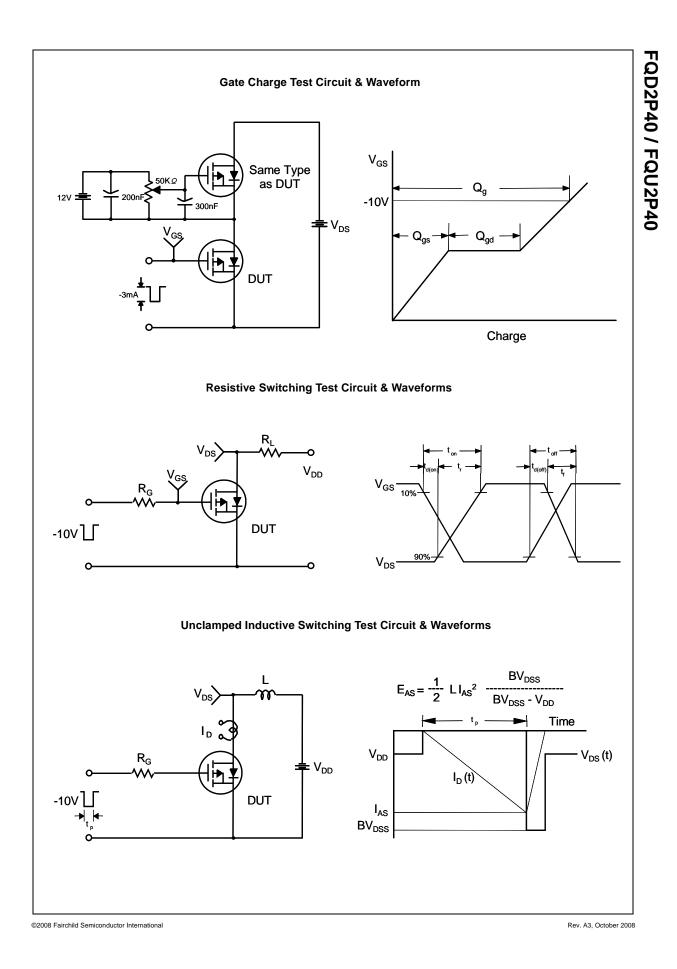
cs ce Breakdown Voltage				Max	
e breakuuwii vullaye	V _{GS} = 0 V, I _D = -250 μA	-400			V
Voltage Temperature	$I_D = -250 \mu\text{A}$, Referenced to 25°C	-400			V/°C
	V _{DS} = -400 V, V _{GS} = 0 V			4	۸
/oltage Drain Current				-1	μΑ μΑ
Leakage Current Forward					nA
-					nA
,	66 56				
s					
hold Voltage	$V_{DS} = V_{GS}, I_{D} = -250 \mu A$	-3.0		-5.0	V
	V _{GS} = -10 V, I _D = -0.78 A		5.0	6.5	Ω
ansconductance	$V_{DS} = -50 \text{ V}, I_D = -0.78 \text{ A}$ (Note 4)		1.26		S
				1	1
				T	1
	$V_{DS} = -25 V, V_{GS} = 0 V,$			350	pF
	f = 1.0 MHz				pF
ansfer Capacitance			6.5	8.5	pF
cteristics					
lay Time	$V_{22} = -200 V I_2 = -2.0 A$		9	30	ns
se Time			33	75	ns
lay Time			22	55	ns
ll Time	(Note 4, 5)		25	60	ns
Charge	V _{DS} = -320 V, I _D = -2.0 A,		10	13	nC
e Charge	V _{GS} = -10 V		2.1		nC
Charge	(Note 4, 5)		5.5		nC
de Characteristico e	ad Maximum Datinga				
				1 56	А
					A
				-	V
					ns
covery Charge	$dI_{\rm F} / dt = 100 {\rm A/\mu s}$ (Note 4)		0.85		μC
leevery enarge			0.00		μΟ
	Continuous Drain-Source Did Pulsed Drain-Source Diode F ce Diode Forward Voltage ecovery Time	Voltage Drain Current $V_{DS} = -320 \text{ V}, \text{ T}_{C} = 125^{\circ}\text{C}$ Leakage Current, Forward $V_{GS} = -30 \text{ V}, V_{DS} = 0 \text{ V}$ Leakage Current, Reverse $V_{GS} = 30 \text{ V}, V_{DS} = 0 \text{ V}$ Leakage Current, Reverse $V_{GS} = 30 \text{ V}, V_{DS} = 0 \text{ V}$ Shold Voltage $V_{DS} = V_{GS}, I_D = -250 \mu \text{A}$ -Source $V_{GS} = -10 \text{ V}, I_D = -0.78 \text{ A}$ nce $V_{DS} = -50 \text{ V}, I_D = -0.78 \text{ A}$ (Note 4)eristics $V_{DS} = -50 \text{ V}, I_D = -0.78 \text{ A}$ (Note 4)citance $V_{DS} = -50 \text{ V}, I_D = -0.78 \text{ A}$ (Note 4)eristics $V_{DS} = -50 \text{ V}, I_D = -0.78 \text{ A}$ (Note 4)citance $V_{DS} = -50 \text{ V}, I_D = -0.78 \text{ A}$ (Note 4)eristics $V_{DS} = -25 \text{ V}, V_{GS} = 0 \text{ V},$ f = 1.0 MHz $V_{DS} = -200 \text{ V}, I_D = -2.0 \text{ A},$ ansfer Capacitance $V_{DD} = -200 \text{ V}, I_D = -2.0 \text{ A},$ R_G = 25 \Omega $V_{DS} = -320 \text{ V}, I_D = -2.0 \text{ A},$ V_{GS} = -10 V(Note 4, 5)Charge $V_{DS} = -320 \text{ V}, I_D = -2.0 \text{ A},$ V_{GS} = -10 V(Note 4, 5)charge $V_{OS} = -10 \text{ V}$ charge(Note 4, 5)continuous Drain-Source Diode Forward Currentvulsed Drain-Source Diode Forward Currentvulsed Drain-Source Diode Forward Currentve Diode Forward Voltage $V_{GS} = 0 \text{ V}, I_S = -1.56 \text{ A}$ covery Time $V_{GS} = 0 \text{ V}, I_S = -2.0 \text{ A},$	Voltage Drain Current $V_{DS} = -320 \text{ V}, T_C = 125^{\circ}\text{C}$ Leakage Current, Forward $V_{GS} = -30 \text{ V}, V_{DS} = 0 \text{ V}$ Leakage Current, Reverse $V_{GS} = 30 \text{ V}, V_{DS} = 0 \text{ V}$ Leakage Current, Reverse $V_{GS} = 30 \text{ V}, V_{DS} = 0 \text{ V}$ Shold Voltage $V_{DS} = V_{GS}, I_D = -250 \mu \text{ A}$ 3.0-Source $V_{GS} = -10 \text{ V}, I_D = -0.78 \text{ A}$ nace $V_{DS} = -50 \text{ V}, I_D = -0.78 \text{ A}$ eristics $V_{DS} = -50 \text{ V}, I_D = -0.78 \text{ A}$ citance $V_{DS} = -50 \text{ V}, I_D = -0.78 \text{ A}$ acitance $f = 1.0 \text{ MHz}$ ansfer Capacitance $V_{DD} = -200 \text{ V}, I_D = -2.0 \text{ A},$ cteristicseteristicslay Time $V_{DS} = -320 \text{ V}, I_D = -2.0 \text{ A},$ lay Time $V_{DS} = -320 \text{ V}, I_D = -2.0 \text{ A},$ lay Time $V_{DS} = -320 \text{ V}, I_D = -2.0 \text{ A},$ charge $V_{DS} = -320 \text{ V}, I_D = -2.0 \text{ A},$ charge $V_{DS} = -320 \text{ V}, I_D = -2.0 \text{ A},$ charge $V_{DS} = -10 \text{ V}$ charge $V_{DS} = -10 \text{ V}$ charge $V_{OS} = 0 \text{ V}, I_S = -1.56 \text{ A}$ charge $V_{GS} = 0 \text{ V}, I_S = -1.56 \text{ A}$ covery Time $V_{GS} = 0 \text{ V}, I_S = -2.0 \text{ A},$	Voltage Drain Current $V_{DS} = -320 \text{ V}, T_C = 125^{\circ}\text{C}$ Leakage Current, Forward $V_{GS} = -30 \text{ V}, V_{DS} = 0 \text{ V}$ Leakage Current, Reverse $V_{GS} = 30 \text{ V}, V_{DS} = 0 \text{ V}$ Leakage Current, Reverse $V_{GS} = 30 \text{ V}, V_{DS} = 0 \text{ V}$ S Source $V_{GS} = -10 \text{ V}, I_D = -0.78 \text{ A}$ 5.0 ansconductance $V_{DS} = -50 \text{ V}, I_D = -0.78 \text{ A}$ 1.26 eristics f = 1.0 \text{ MHz} 45 ansfer Capacitance f = 1.0 \text{ MHz} 6.5 cteristics 6.5 22 Itime V_{DD} = -200 \text{ V}, I_D = -2.0 \text{ A}, 9 33 lay Time V_{DS} = -320 \text{ V}, I_D = -2.0 \text{ A}, 25 25 charge V_{DS} = -10 \text{ V} 25 25 charge V_{GS} = -10 \text{ V} 5.5<	Voltage Drain Current $V_{DS} = -320 \text{ V}, T_{C} = 125^{\circ}\text{C}$ 100 Leakage Current, Reverse $V_{GS} = 30 \text{ V}, V_{DS} = 0 \text{ V}$ 100 S 100 100 S 100 100 S 5.0 6.5 5.0 6.5 S

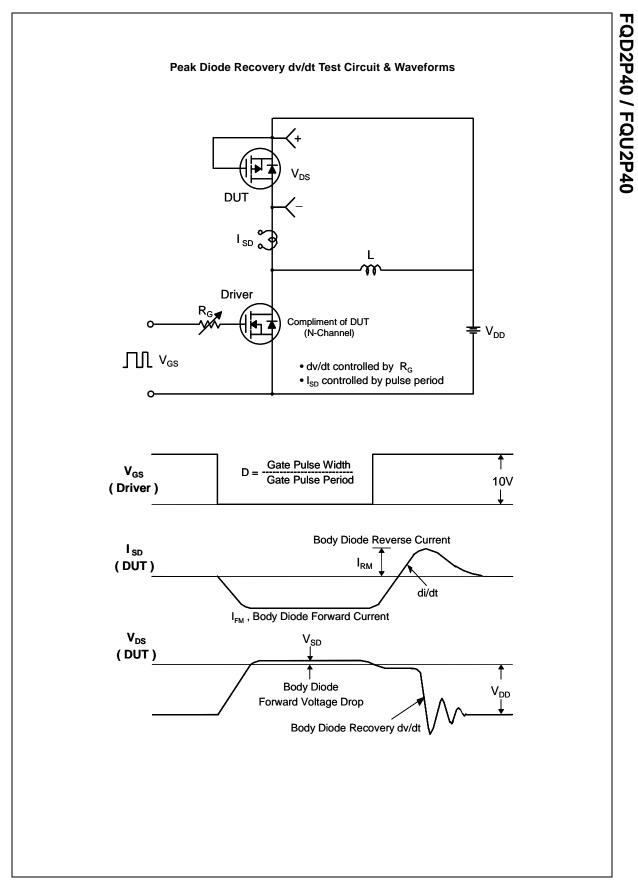
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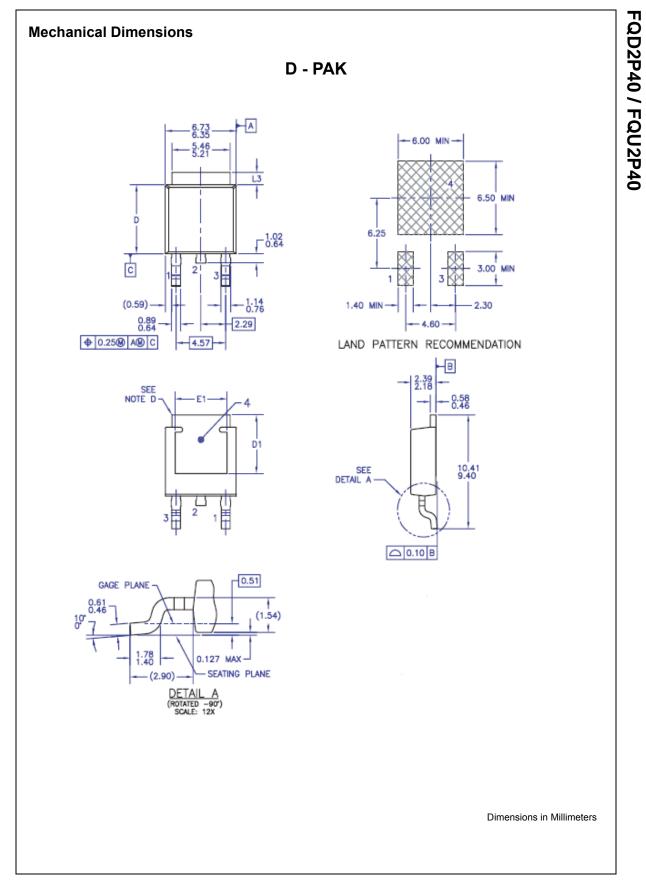
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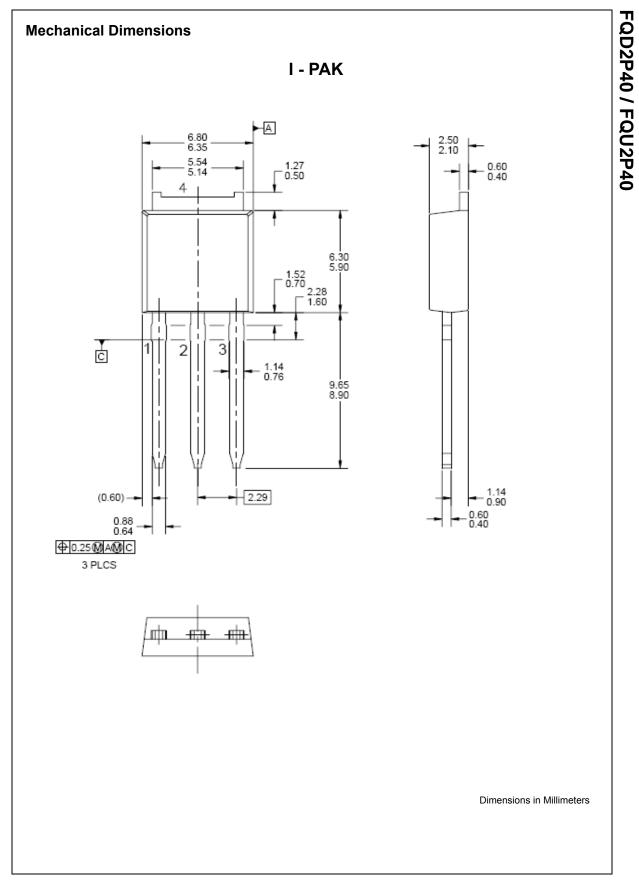














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