

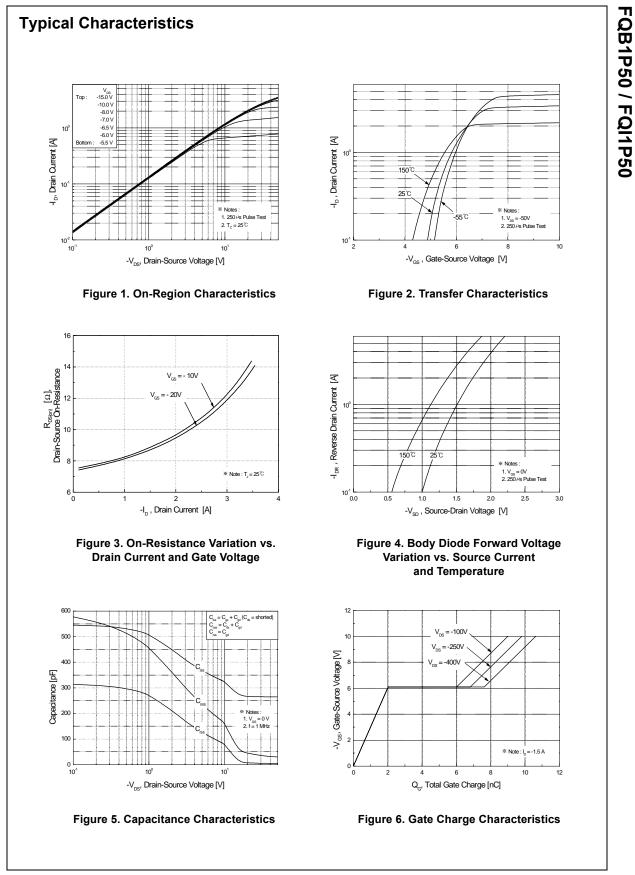
Thermal Characteristics

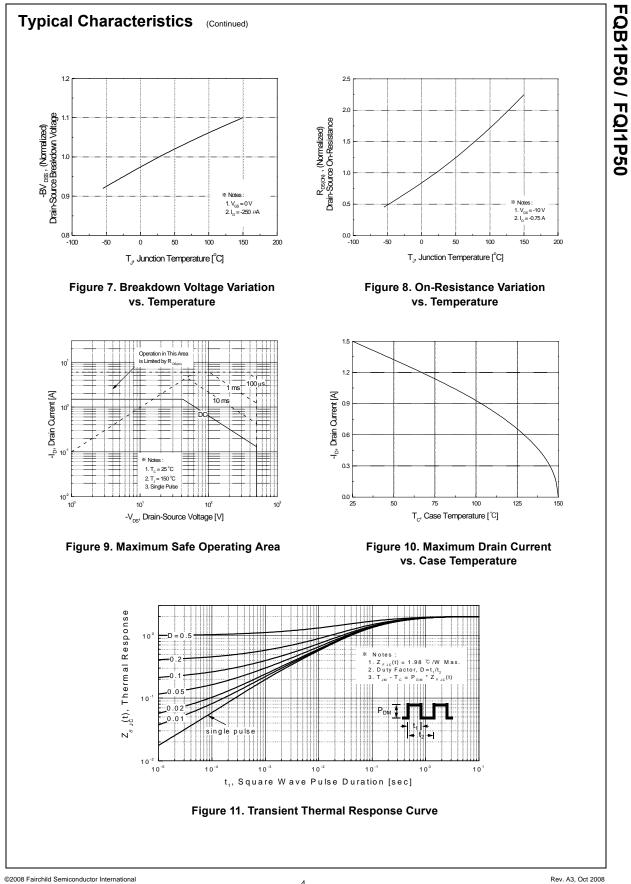
Symbol	Parameter	Тур	Max	Units
$R_{ extsf{ heta}JC}$	Thermal Resistance, Junction-to-Case		1.98	°C/W
R_{\thetaJA}	Thermal Resistance, Junction-to-Ambient *		40	°C/W
$R_{\theta JA}$	Thermal Resistance, Junction-to-Ambient		62.5	°C/W

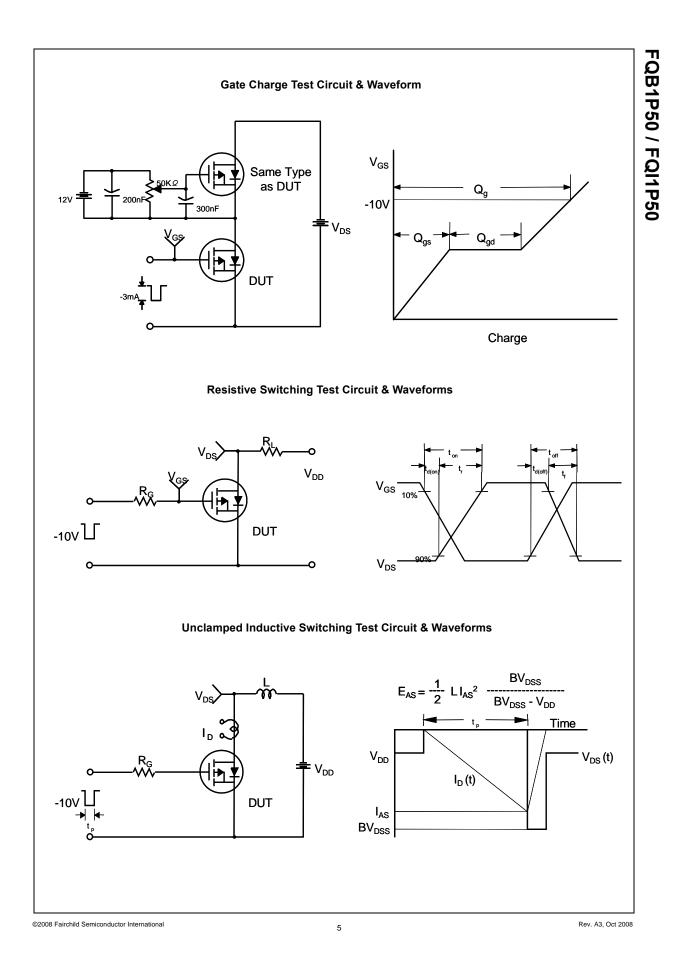
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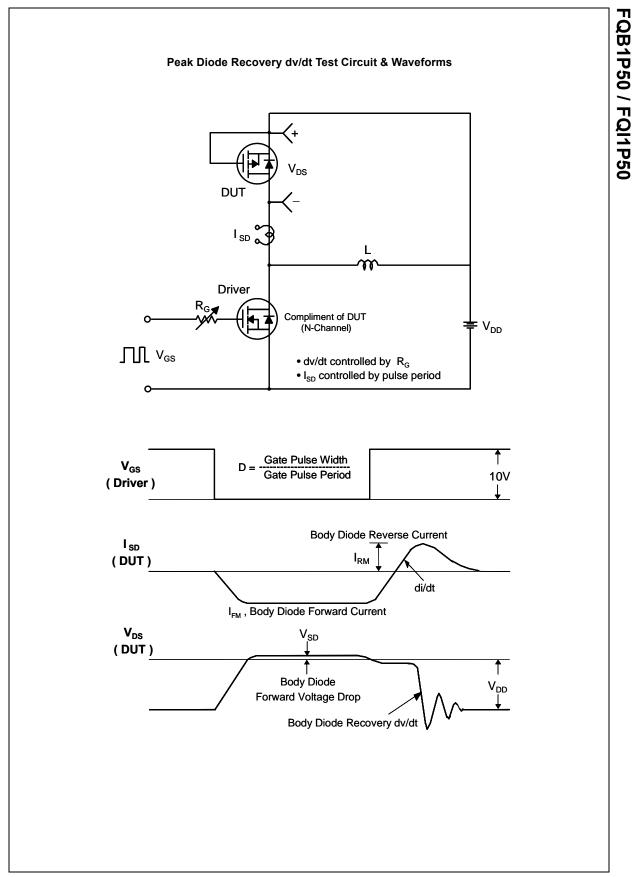
	Parameter	Test Conditions	Min	Тур	Мах	Units
Off Cha BV _{DSS}	racteristics Drain-Source Breakdown Voltage	V _{GS} = 0 V, I _D = -250 μA	-500			V
ΔBV_{DSS}	Breakdown Voltage Temperature	$I_D = -250 \mu\text{A}$, Referenced to 25°C	-500			V/°C
/ ΔT _J	Coefficient					
I _{DSS}	Zero Gate Voltage Drain Current	$V_{DS} = -500 \text{ V}, V_{GS} = 0 \text{ V}$			-1	μΑ
		$V_{DS} = -400 \text{ V}, \text{ T}_{C} = 125^{\circ}\text{C}$			-10	μA
I _{GSSF}	Gate-Body Leakage Current, Forward	$V_{GS} = -30 \text{ V}, V_{DS} = 0 \text{ V}$			-100	nA
IGSSR	Gate-Body Leakage Current, Reverse	V _{GS} = 30 V, V _{DS} = 0 V			100	nA
On Cha	racteristics					
V _{GS(th)}	Gate Threshold Voltage	$V_{DS} = V_{GS}, I_{D} = -250 \mu A$	-3.0		-5.0	V
R _{DS(on)}	Static Drain-Source On-Resistance	V _{GS} = -10 V, I _D = -0.75 A		8.0	10.5	Ω
9 _{FS}	Forward Transconductance	V _{DS} = -50 V, I _D = -0.75 A (Note 4)		1.26		S
Dynami	c Characteristics					
C _{iss}	Input Capacitance	V _{DS} = -25 V, V _{GS} = 0 V,		270	350	pF
C _{oss}	Output Capacitance	f = 1.0 MHz		40	50	pF
C _{rss}	Reverse Transfer Capacitance	се		6.0	8.0	pF
Switchi	na Characteristics					
	ng Characteristics			0.0	20	
t _{d(on)}	Turn-On Delay Time	V _{DD} = -250 V, I _D = -1.5 A,		9.0	30	ns
t _r	Turn-On Rise Time	$R_G = 25 \Omega$		25	60	ns
t _{d(off)}	Turn-Off Delay Time	(Note 4, 5)		27	65 70	ns
t _f Q _a	Turn-Off Fall Time			30	14	ns
Q _{gs}	Total Gate Charge Gate-Source Charge	$V_{DS} = -400 \text{ V}, \text{ I}_{D} = -1.5 \text{ A},$		<u>11</u> 2.0		nC nC
∝ _{gs} Q _{gd}	Gate-Drain Charge	V _{GS} = -10 V (Note 4, 5)		5.6		nC
≪ga	Sale Blain Gharge			0.0		110
Drain-S	ource Diode Characteristics ar	nd Maximum Ratings				
I _S	Maximum Continuous Drain-Source Dic	-			-1.5	А
-	Maximum Pulsed Drain-Source Diode F	Forward Current			-6.0	А
ISM		V _{GS} = 0 V, I _S = -1.5 A			-5.0	V
I _{SM} V _{SD}	Drain-Source Diode Forward Voltage					
I _{SM} V _{SD} t _{rr}	Drain-Source Diode Forward Voltage Reverse Recovery Time	$V_{GS} = 0 V, I_S = -1.5 A,$ (Note 4)		200		ns

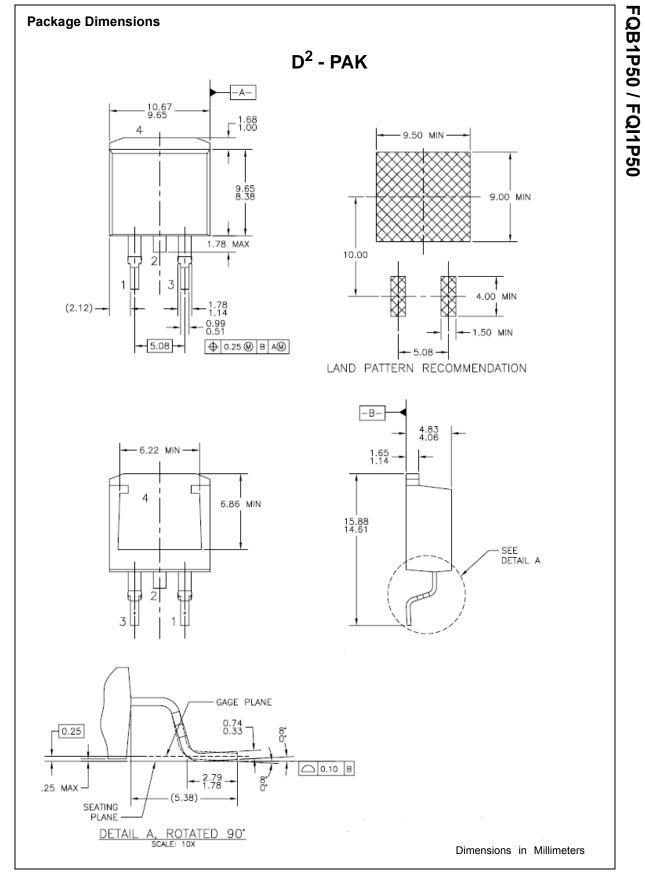
FQB1P50 / FQI1P50



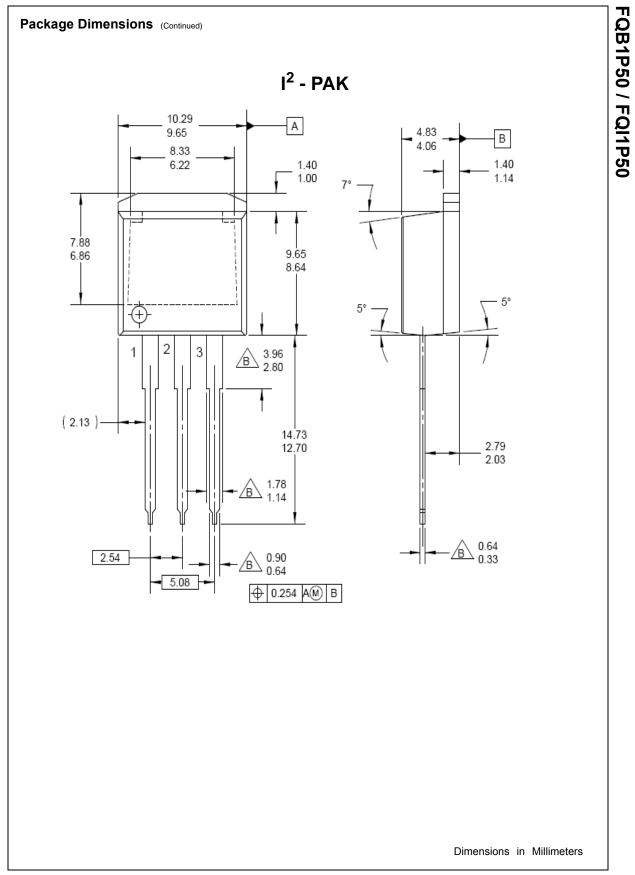








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