

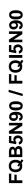
Oymbol	i aldificter			Onits	
V _{DSS}	Drain-Source Voltage		900	V	
I _D	Drain Current - Continuous (T _C = 25°C)		5.4	А	
	- Continuous (T _C = 100)°C)	3.42	А	
I _{DM}	Drain Current - Pulsed	(Note 1)	21.6	А	
V _{GSS}	Gate-Source Voltage		± 30	V	
E _{AS}	Single Pulsed Avalanche Energy	(Note 2)	660	mJ	
I _{AR}	Avalanche Current	(Note 1)	5.4	А	
E _{AR}	Repetitive Avalanche Energy	(Note 1)	15.8	mJ	
dv/dt	Peak Diode Recovery dv/dt	(Note 3)	4.0	V/ns	
P _D	Power Dissipation $(T_A = 25^{\circ}C)^{*}$		3.13	W	
	Power Dissipation ($T_C = 25^{\circ}C$)		158	W	
	- Derate above 25°C		1.27	W/°C	
T _J , T _{STG}	Operating and Storage Temperature Range		-55 to +150	°C	
TL	Maximum lead temperature for soldering purposes, 1/8" from case for 5 seconds		300	°C	

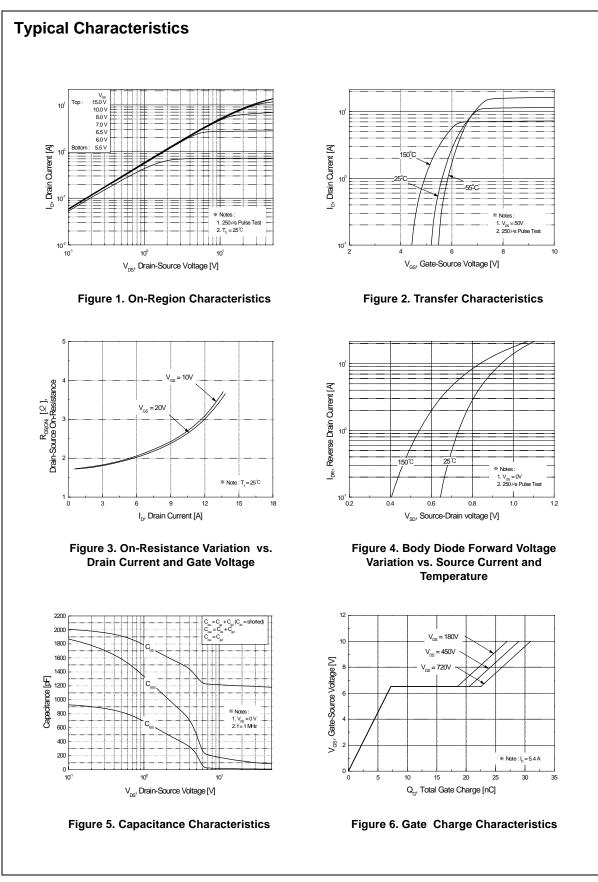
Thermal Characteristics

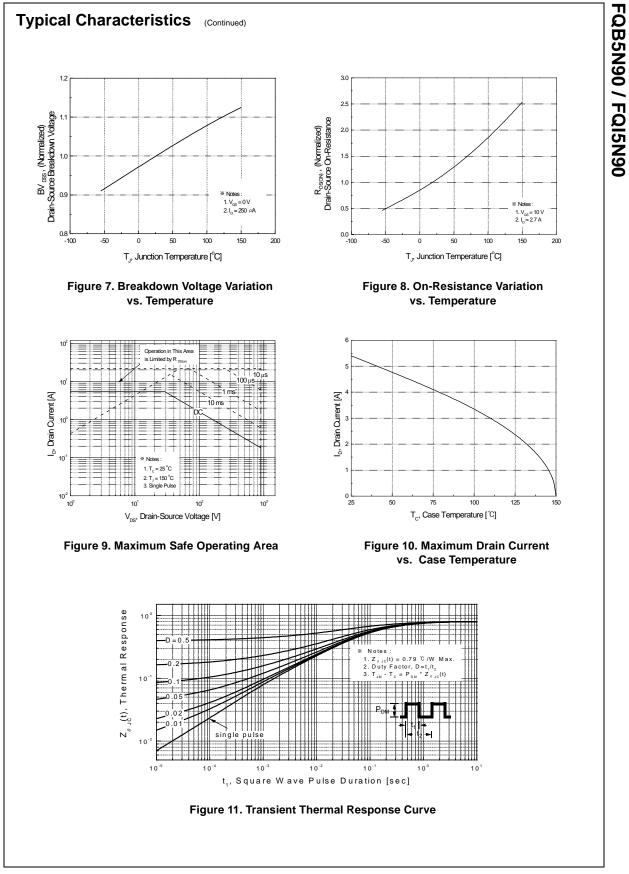
Symbol	Parameter	Тур	Max	Units
$R_{ extsf{ heta}JC}$	Thermal Resistance, Junction-to-Case		0.79	°C/W
R_{\thetaJA}	Thermal Resistance, Junction-to-Ambient *		40	°C/W
$R_{\theta JA}$	Thermal Resistance, Junction-to-Ambient		62.5	°C/W

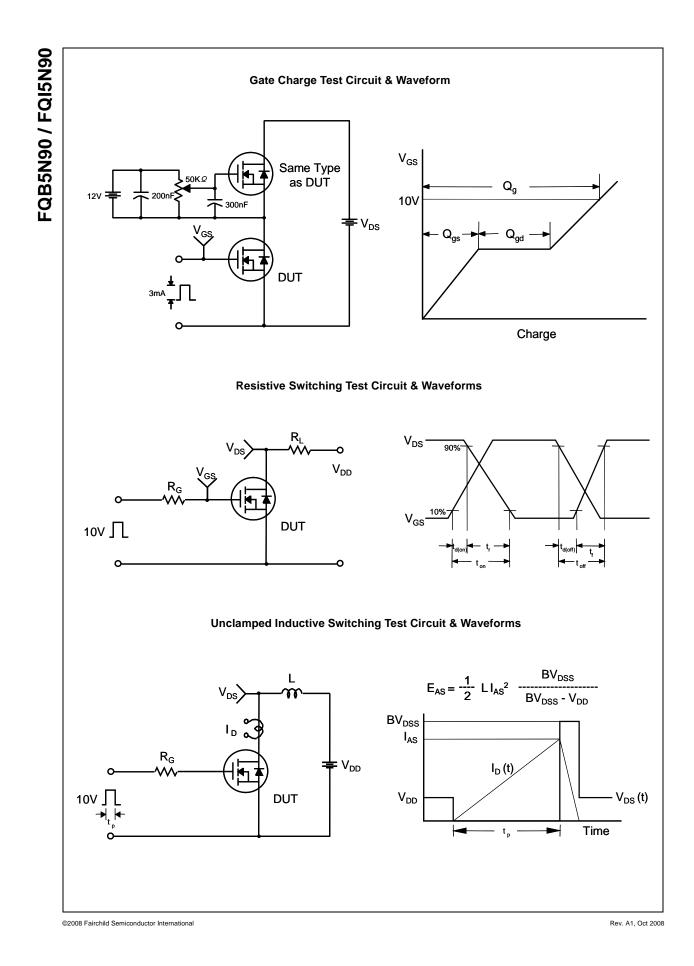
Off Char	Parameter	Test Conditions		Min	Тур	Max	Units
	ractaristics						
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0 V, I _D = 250 μA		900			V
ΔBV_{DSS}	Breakdown Voltage Temperature Coefficient	$I_D = 250 \mu$ A, Referenced to	o 25°C		1.0		V/°C
I _{DSS}		V _{DS} = 900 V, V _{GS} = 0 V				10	μA
	Zero Gate Voltage Drain Current	V _{DS} = 720 V, T _C = 125°C				100	μA
I _{GSSF}	Gate-Body Leakage Current, Forward	$V_{GS} = 30 \text{ V}, V_{DS} = 0 \text{ V}$				100	nA
I _{GSSR}	Gate-Body Leakage Current, Reverse	$V_{GS} = -30 \text{ V}, \text{ V}_{DS} = 0 \text{ V}$				-100	nA
On Char							
	acteristics Gate Threshold Voltage	$V_{DS} = V_{GS}, I_{D} = 250 \mu A$		3.0		5.0	V
_	Static Drain-Source			0.0		0.0	•
	On-Resistance	$V_{GS} = 10 V, I_{D} = 2.7 A$			1.8	2.3	Ω
9 _{FS}	Forward Transconductance	$V_{DS} = 50 \text{ V}, \text{ I}_{D} = 2.7 \text{ A}$	(Note 4)		5.6		S
. .							
-	c Characteristics				1200	1550	~
	Input Capacitance	V _{DS} = 25 V, V _{GS} = 0 V, f = 1.0 MHz			1200	1550	pF
	Output Capacitance				110	145	pF
C _{rss}	Reverse Transfer Capacitance				13	17	pF
Switchin	ng Characteristics						
	Turn-On Delay Time				28	65	ns
t _r	Turn-On Rise Time	V_{DD} = 450 V, I _D = 5.4 A, R _G = 25 Ω			65	140	ns
t _{d(off)}	Turn-Off Delay Time				65	140	ns
	Turn-Off Fall Time	(N	lote 4, 5)		50	110	ns
Qg	Total Gate Charge	V _{DS} = 720 V, I _D = 5.4 A,			31	40	nC
Q _{gs}	Gate-Source Charge	V _{GS} = 10 V			7.2		nC
-	Gate-Drain Charge		lote 4, 5)		15		nC
						r	
	ource Diode Characteristics ar					5 4	•
	Maximum Continuous Drain-Source Dic Maximum Pulsed Drain-Source Diode F					5.4	A
0101	Drain-Source Diode Forward Voltage					21.6	A
						1.4	V
-	Reverse Recovery Time	$V_{GS} = 0 V, I_S = 5.4 A,$ $dI_F / dt = 100 A/\mu s$	(Note 4)		610		ns
Qrr	Reverse Recovery Charge	$dF/dt = 100 A/\mu s$	()		5.26		μC

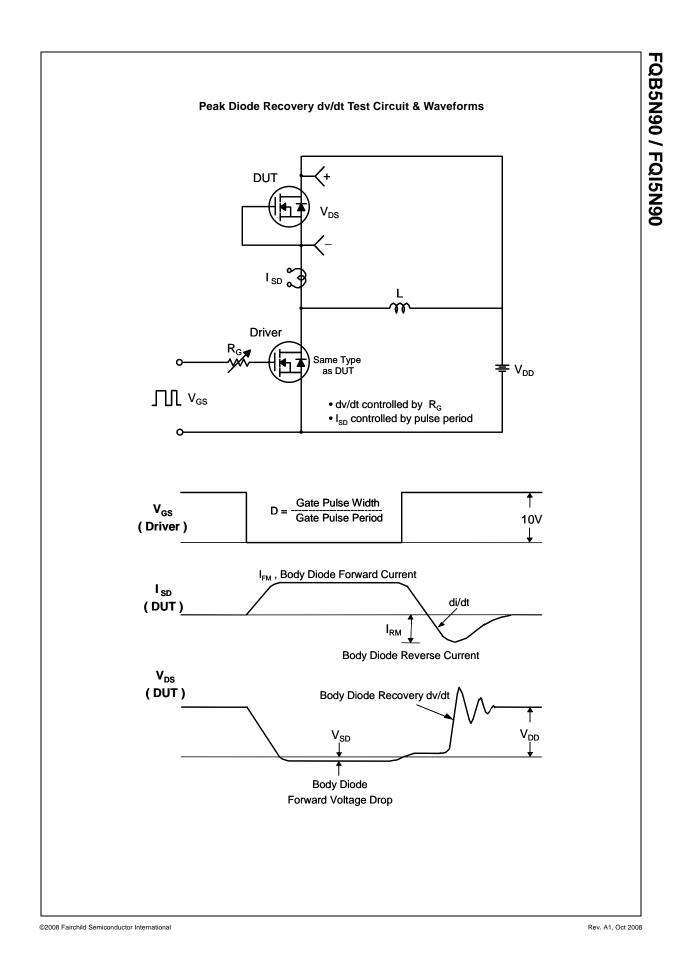
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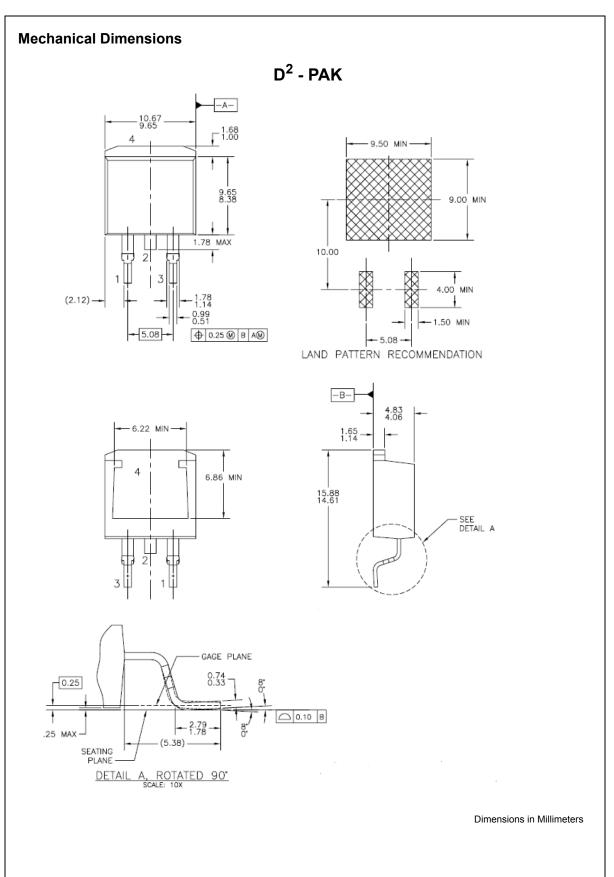


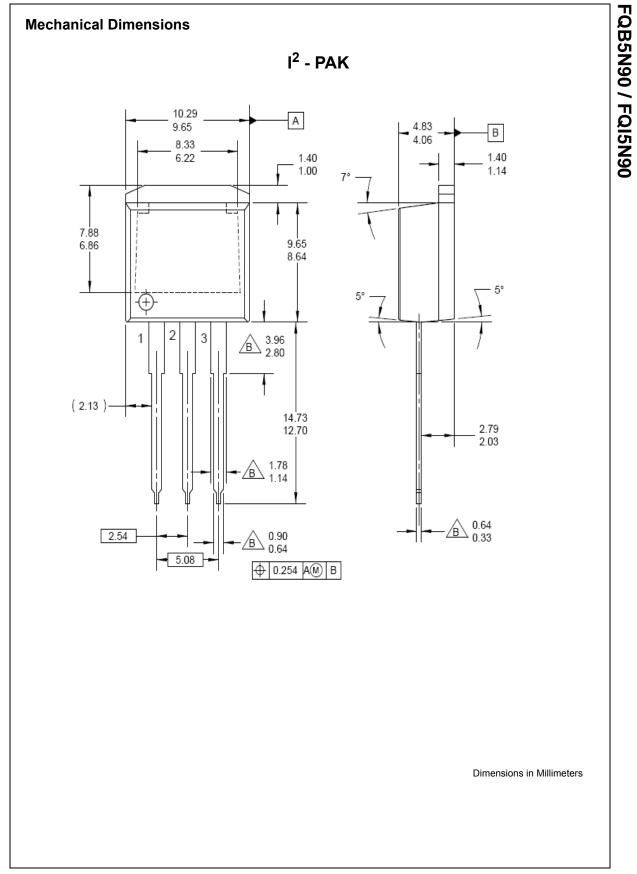














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