

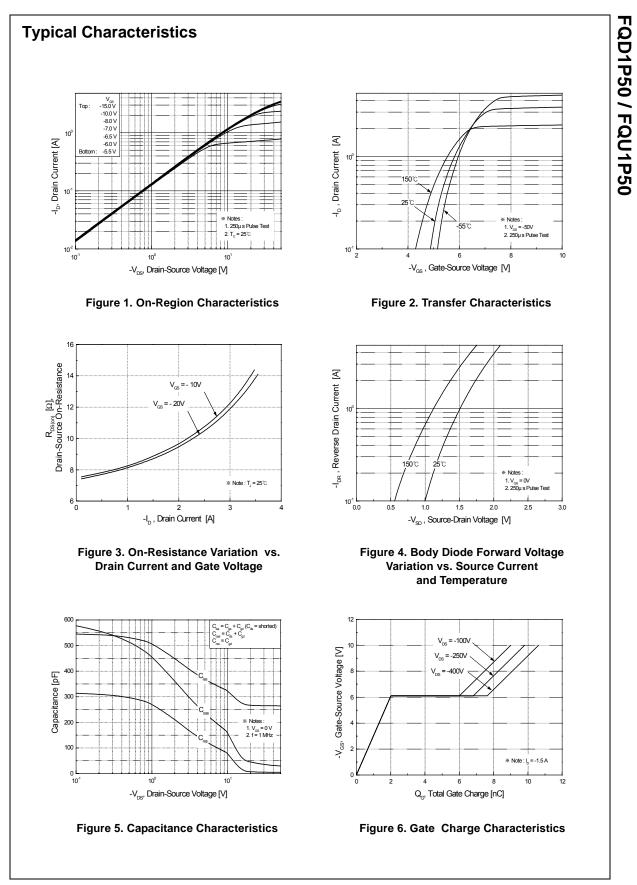
-1.2 -0.76 -4.8 ± 30	A A A
-4.8	
-	Α
± 30	
	V
110	mJ
-1.2	А
3.8	mJ
-4.5	V/ns
2.5	W
38	W
0.3	W/°C
-55 to +150	°C
300	°C
	3.8 -4.5 2.5 38 0.3

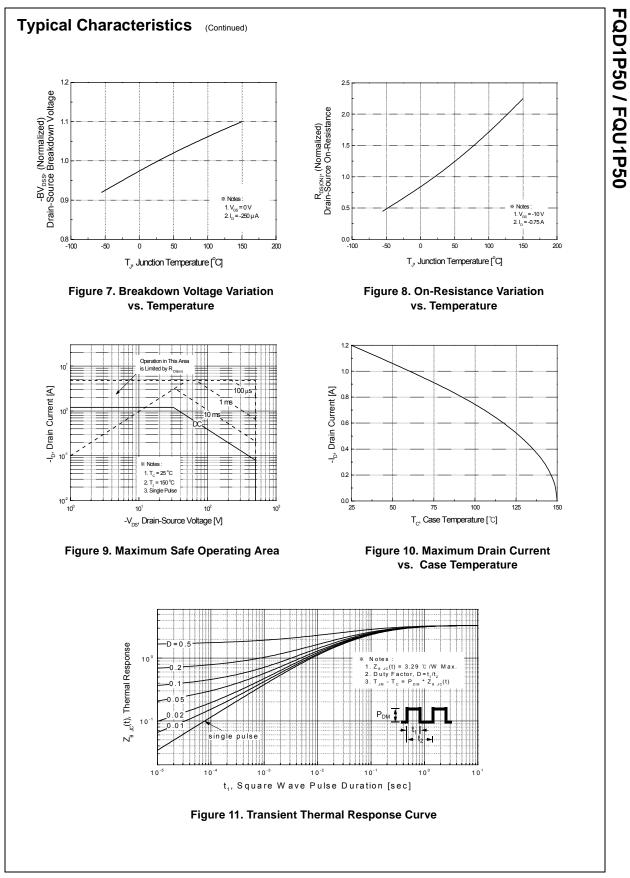
Thermal Characteristics

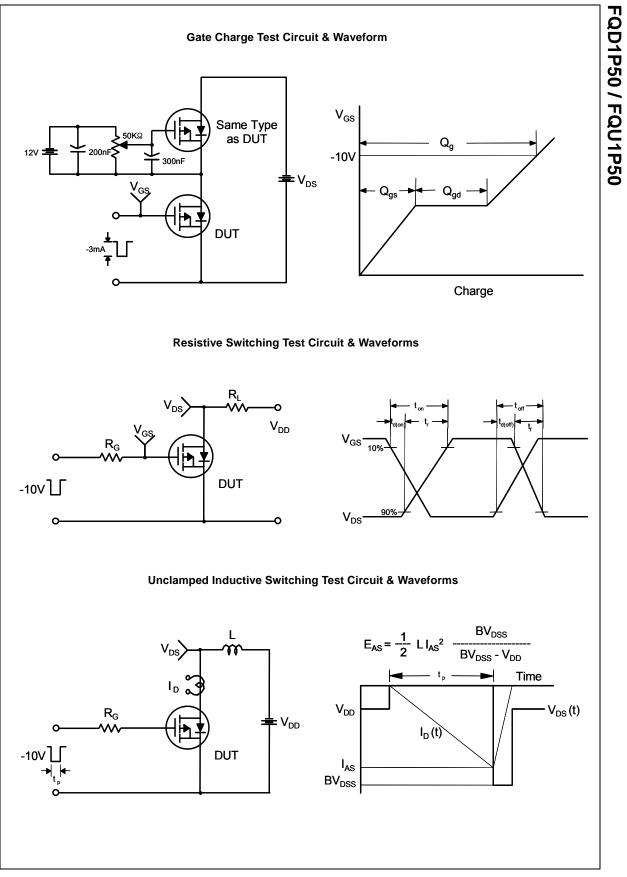
Symbol	Parameter	Тур	Max	Units
R _{θJC}	Thermal Resistance, Junction-to-Case		3.29	°C/W
$R_{\theta JA}$	Thermal Resistance, Junction-to-Ambient *		50	°C/W
R _{0JA}	Thermal Resistance, Junction-to-Ambient		110	°C/W

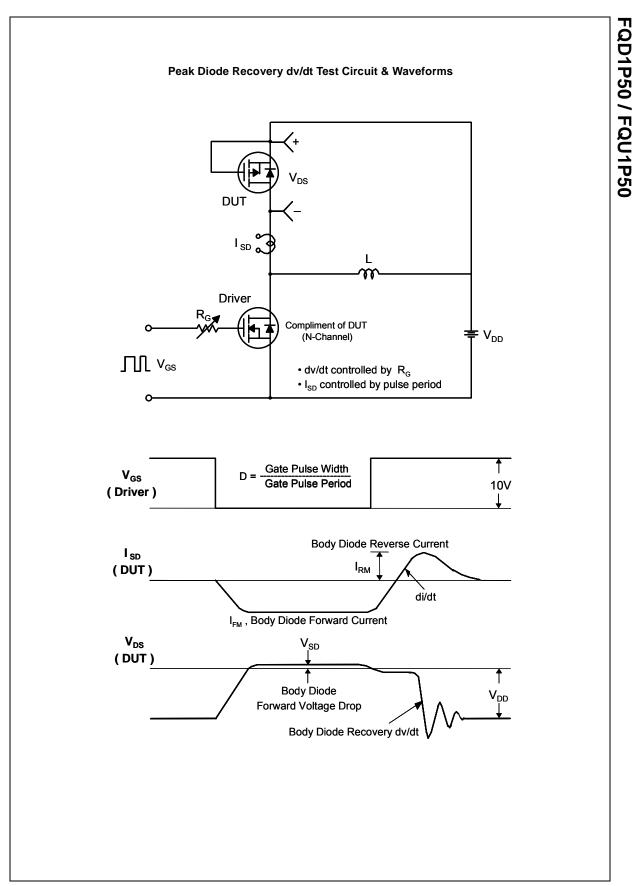
Symbol	Parameter	Test Conditions	Min	Тур	Max	Units
Off Cha	aracteristics					
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0 V, I _D = -250 μA	-500			V
ΔBV _{DSS} ΔT _J	Breakdown Voltage Temperature Coefficient	I_D = -250 µA, Referenced to 25°C		-		V/°C
DSS	Zero Gate Voltage Drain Current	V_{DS} = -500 V, V_{GS} = 0 V V_{DS} = -400 V, T_{C} = 125°C			-1 -10	μA μA
GSSF	Gate-Body Leakage Current, Forward	$V_{GS} = -30 \text{ V}, \text{ V}_{DS} = 0 \text{ V}$			-100	nA
GSSR	Gate-Body Leakage Current, Reverse				100	nA
On Cha	aracteristics		1 1		1	1
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} , I _D = -250 μA	-3.0		-5.0	V
R _{DS(on)}	Static Drain-Source On-Resistance	$V_{\rm DS} = V_{\rm GS}, I_{\rm D} = -2.00 \mu{\rm A}$ $V_{\rm GS} = -10 {\rm V}, I_{\rm D} = -0.6 {\rm A}$		8.0	10.5	Ω
JFS	Forward Transconductance	$V_{\rm DS}$ = -50 V, $I_{\rm D}$ = -0.6 A (Note 4)		1.12		S
Dynam C _{iss}	ic Characteristics	V _{DS} = -25 V, V _{GS} = 0 V,		270	350	pF
Soss	Output Capacitance	V _{DS} = -25 V, V _{GS} = 0 V, f = 1.0 MHz		40	50	pF
Crss	Reverse Transfer Capacitance			6.0	8.0	pF
d(on) r	Turn-On Delay Time Turn-On Rise Time	V _{DD} = -250 V, I _D = -1.5 A, R _G = 25 Ω		9.0 25 27	30 60 65	ns ns
d(off)	Turn-Off Delay Time	$R_{G} = 25 \Omega$		27	65	ns
f	Turn-Off Fall Time	(Note 4, 5)		30	70	ns
ל ^g	Total Gate Charge	V _{DS} = -400 V, I _D = -1.5 A,		11	14	nC
ጋ _{gs}	Gate-Source Charge	V _{GS} = -10 V		2.0		nC
ጋ _{gd}	Gate-Drain Charge	(Note 4, 5)		5.6		nC
Drain-S	Source Diode Characteristics ar	nd Maximum Ratings				
	Maximum Continuous Drain-Source Dic				-1.2	Α
SM	Maximum Pulsed Drain-Source Diode F	Forward Current			-4.8	Α
/ _{SD}	Drain-Source Diode Forward Voltage	V _{GS} = 0 V, I _S = -1.2 A			-5.0	V
rr	Reverse Recovery Time	V _{GS} = 0 V, I _S = -1.5 A,		200		ns
ל ^ע	Reverse Recovery Charge	$dI_{F} / dt = 100 \text{ A}/\mu \text{s}$ (Note 4)		0.7		μC
I_{SM} V_{SD} t_{rr} Q_{rr} otes: Repetitive R L = 138mH, I_{SD} \le -1.5A, Pulse Test :	Maximum Continuous Drain-Source Dic Maximum Pulsed Drain-Source Diode F Drain-Source Diode Forward Voltage Reverse Recovery Time	the Forward Current Forward Current $V_{GS} = 0 V, I_S = -1.2 A$ $V_{GS} = 0 V, I_S = -1.5 A,$ $dI_F / dt = 100 A/\mu s$ (Note 4)		 200	-4.8 -5.0 	

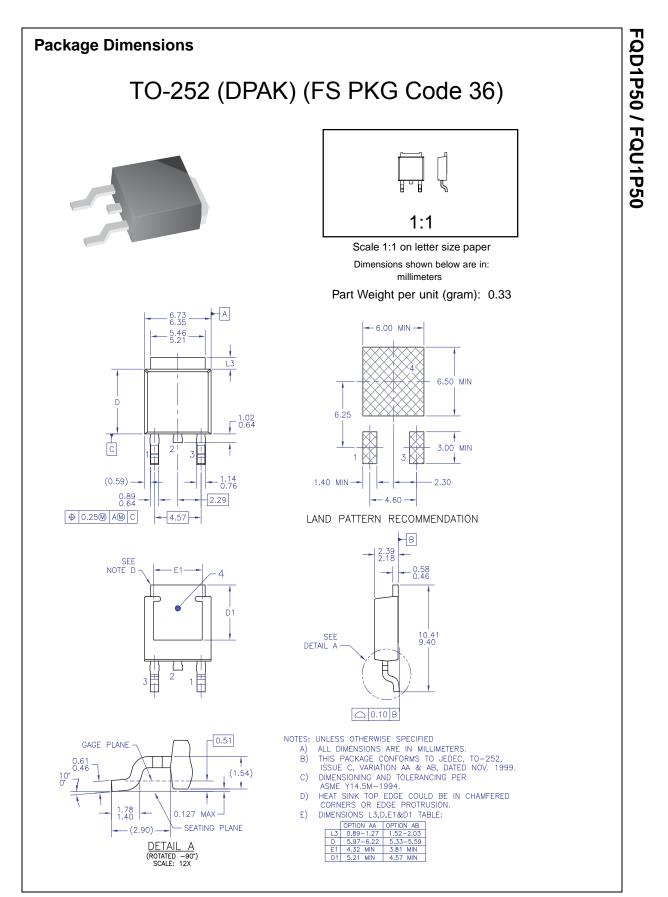
FQD1P50 / FQU1P50



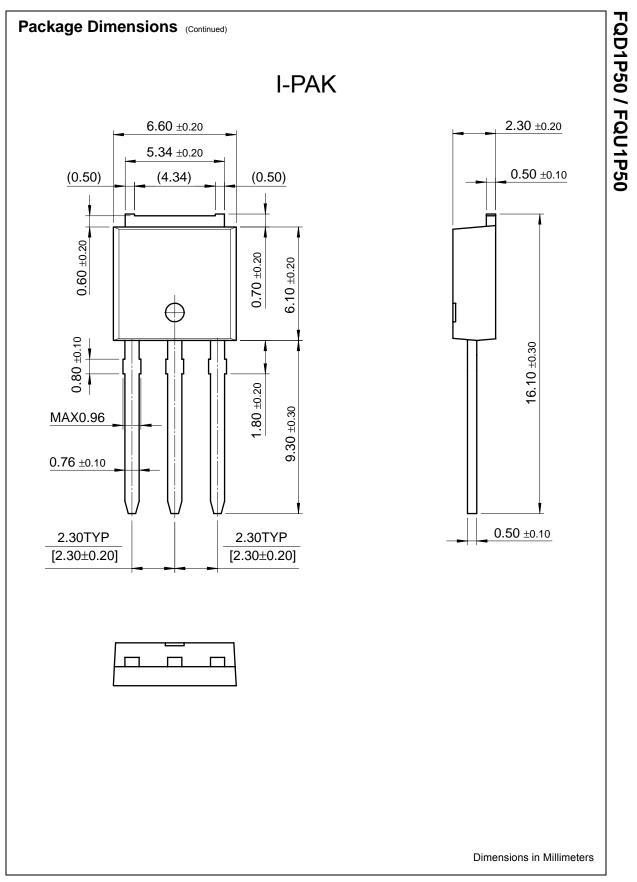








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