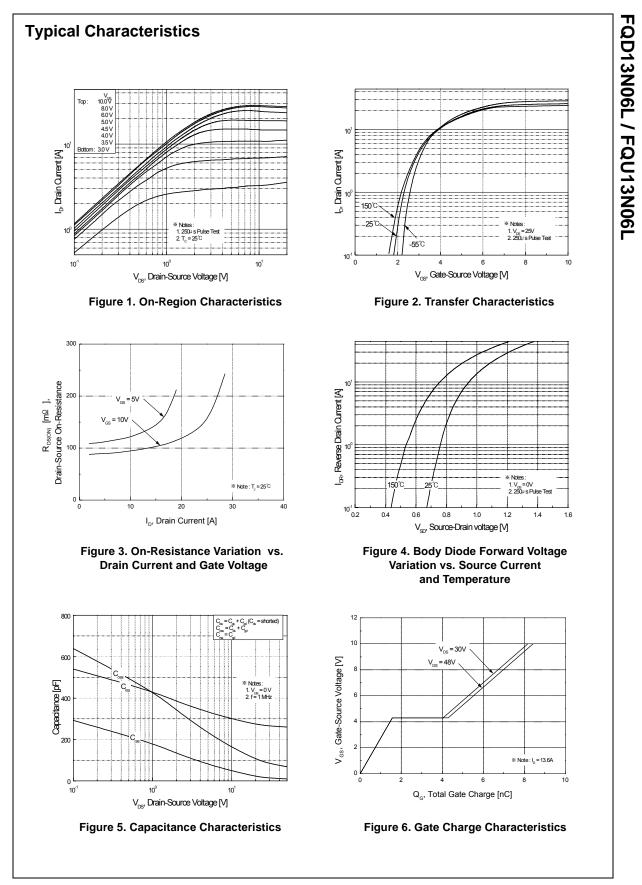
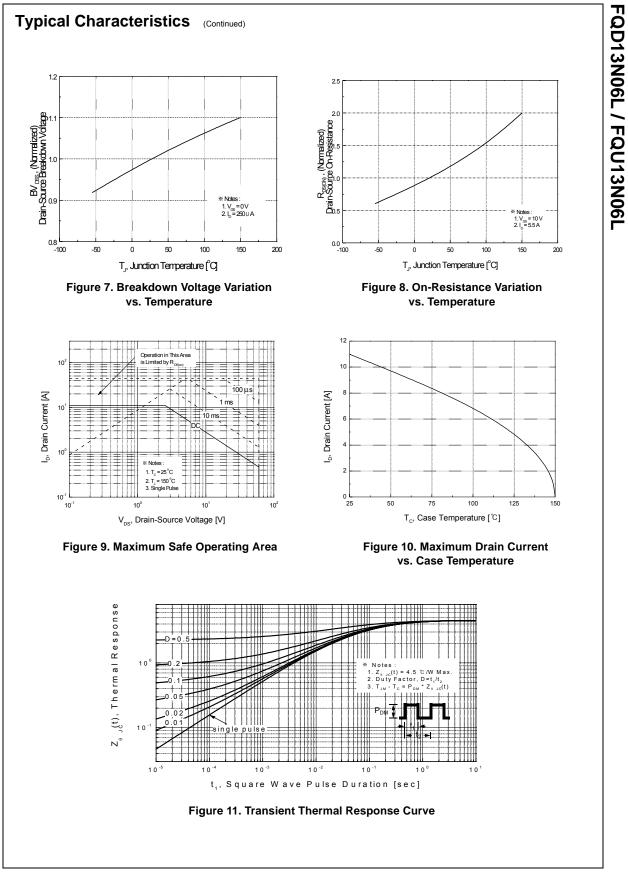
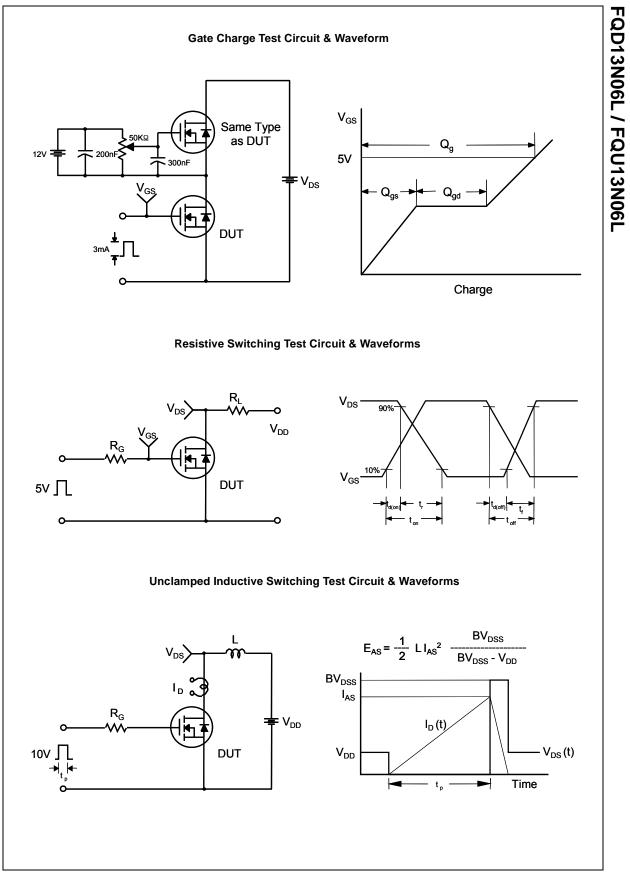


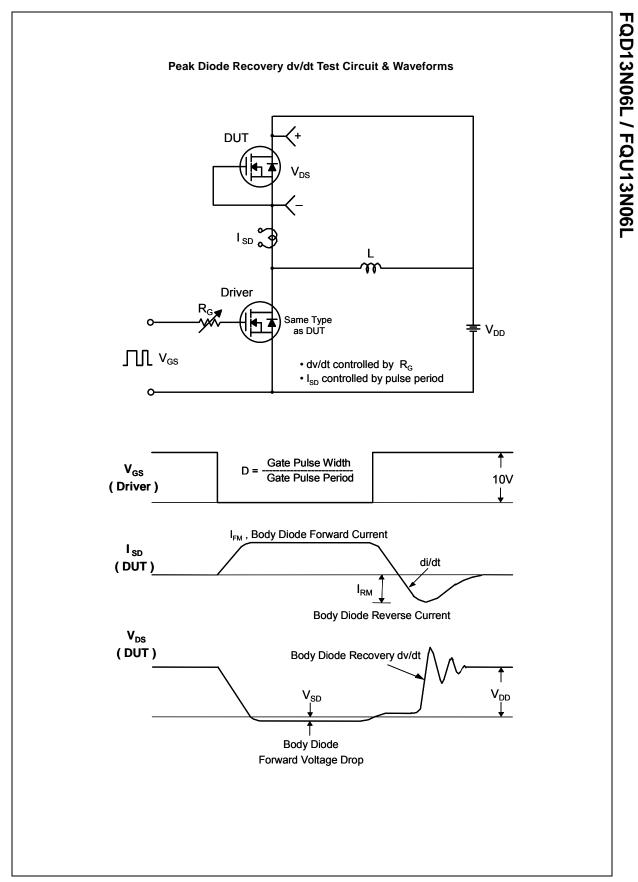
Symbol	Parameter	Тур	Max	Units
$R_{\theta JC}$	Thermal Resistance, Junction-to-Case		4.5	°C/W
$R_{ extsf{ heta}JA}$	Thermal Resistance, Junction-to-Ambient *		50	°C/W
$R_{\theta JA}$	Thermal Resistance, Junction-to-Ambient		110	°C/W

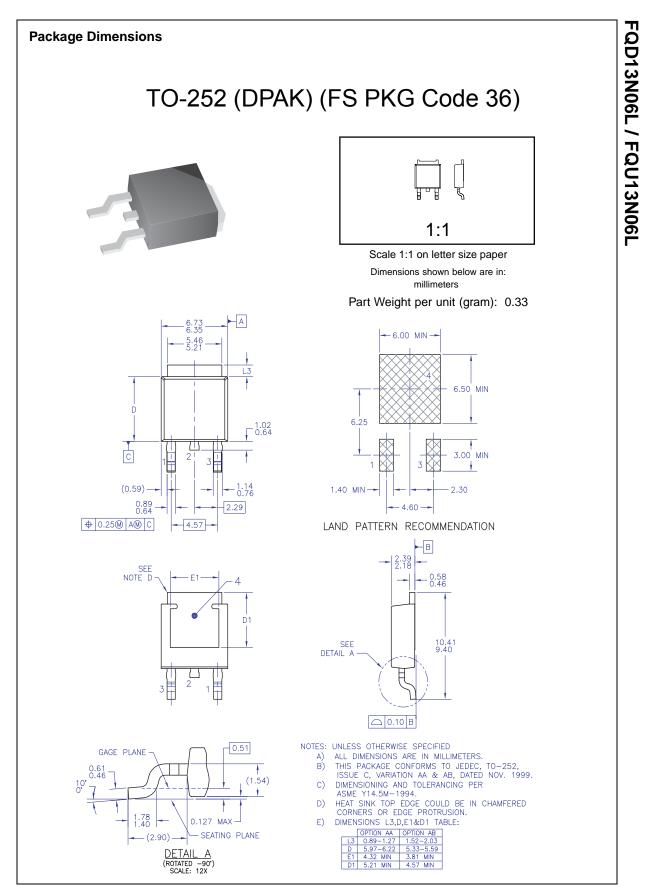
eristics -Source Breakdown Voltage kdown Voltage Temperature ficient Gate Voltage Drain Current -Body Leakage Current, Forward -Body Leakage Current, Reverse eristics Threshold Voltage	$V_{GS} = 0 \text{ V}, \text{ I}_{D} = 250 \mu\text{A}$ $I_{D} = 250 \mu\text{A}, \text{ Referenced to } 25^{\circ}\text{C}$ $V_{DS} = 60 \text{ V}, V_{GS} = 0 \text{ V}$ $V_{DS} = 48 \text{V}, T_{C} = 150^{\circ}\text{C}$ $V_{GS} = 20 \text{V}, V_{DS} = 0 \text{V}$ $V_{GS} = -20 \text{V}, V_{DS} = 0 \text{V}$	60 	 0.05 	 1 10	V V/°C μA
-Source Breakdown Voltage kdown Voltage Temperature ficient Gate Voltage Drain Current -Body Leakage Current, Forward -Body Leakage Current, Reverse	$I_{D} = 250 \ \mu\text{A}, \text{ Referenced to } 25^{\circ}\text{C}$ $V_{DS} = 60 \ \text{V}, \ V_{GS} = 0 \ \text{V}$ $V_{DS} = 48 \ \text{V}, \ T_{C} = 150^{\circ}\text{C}$ $V_{GS} = 20 \ \text{V}, \ V_{DS} = 0 \ \text{V}$		0.05 	 1	V/°C
kdown Voltage Temperature ficient Gate Voltage Drain Current -Body Leakage Current, Forward -Body Leakage Current, Reverse	$I_{D} = 250 \ \mu\text{A}, \text{ Referenced to } 25^{\circ}\text{C}$ $V_{DS} = 60 \ \text{V}, \ V_{GS} = 0 \ \text{V}$ $V_{DS} = 48 \ \text{V}, \ T_{C} = 150^{\circ}\text{C}$ $V_{GS} = 20 \ \text{V}, \ V_{DS} = 0 \ \text{V}$		0.05 	 1	V/°C
Gate Voltage Drain Current -Body Leakage Current, Forward -Body Leakage Current, Reverse Pristics	$V_{DS} = 48 V, T_C = 150^{\circ}C$ $V_{GS} = 20 V, V_{DS} = 0 V$				
-Body Leakage Current, Forward -Body Leakage Current, Reverse	$V_{DS} = 48 V, T_C = 150^{\circ}C$ $V_{GS} = 20 V, V_{DS} = 0 V$				
-Body Leakage Current, Reverse	V _{GS} = 20 V, V _{DS} = 0 V				μA
-Body Leakage Current, Reverse				100	nA
				-100	nA
			1	1 1	
Theshold voltage	V _{DS} = V _{GS} , I _D = 250 μA	1.0		2.5	V
-	$V_{\rm DS} = V_{\rm GS}, I_{\rm D} = 230 \mu \text{A}$ $V_{\rm GS} = 10 \text{V}, I_{\rm D} = 5.5 \text{A}$				v
c Drain-Source Resistance	$V_{GS} = 10 \text{ V}, \text{ I}_{D} = 5.5 \text{ A}$ $V_{GS} = 5 \text{ V}, \text{ I}_{D} = 5.5 \text{ A}$		0.092 0.115	0.115 0.145	Ω
	00 5				S
			Ū		0
aracteristics		1	I		
Capacitance	V _{DS} = 25 V, V _{GS} = 0 V,		270	350	pF
ut Capacitance	f = 1.0 MHz		95	125	pF
rse Transfer Capacitance			17	23	pF
haractoristics					
			8	25	ns
On Rise Time			90	190	ns
Off Delay Time	$- R_{G} = 25 \Omega$		20	50	ns
Off Fall Time	(Note 4, 5)		40	90	ns
Gate Charge	$V_{p,q} = 48 V_{p,q} = 13.6 A_{p,q}$		4.8	6.4	nC
•	$V_{GS} = 5 V$				
			1.6		nC
-Drain Charge	(Note 4, 5)		1.6 2.7		nC nC
	(Note 4, 5)				
-Drain Charge e Diode Characteristics a mum Continuous Drain-Source D	(Note 4, 5)				
e Diode Characteristics a	(Note 4, 5) and Maximum Ratings iode Forward Current		2.7		nC
e Diode Characteristics a mum Continuous Drain-Source D mum Pulsed Drain-Source Diode	(Note 4, 5) and Maximum Ratings iode Forward Current Forward Current		2.7	 11	nC A
e Diode Characteristics a mum Continuous Drain-Source D	(Note 4, 5) and Maximum Ratings iode Forward Current Forward Current		2.7	 11 44	nC A A
	ard Transconductance aracteristics Capacitance ut Capacitance rse Transfer Capacitance haracteristics On Delay Time On Rise Time Off Delay Time	ard Transconductance $V_{DS} = 25 \text{ V}, \text{ I}_D = 5.5 \text{ A}$ (Note 4)aracteristicsCapacitance $V_{DS} = 25 \text{ V}, \text{ V}_{GS} = 0 \text{ V},$ ut Capacitance $f = 1.0 \text{ MHz}$ rse Transfer Capacitance $f = 1.0 \text{ MHz}$ haracteristicsOn Delay Time $V_{DD} = 30 \text{ V}, \text{ I}_D = 6.8 \text{ A},$ Off Delay Time $V_{DS} = 25 \Omega$ Off Fall Time(Note 4, 5)Gate Charge $V_{DS} = 48 \text{ V}, \text{ I}_D = 13.6 \text{ A},$	ard Transconductance $V_{DS} = 25 \text{ V}, \text{ I}_D = 5.5 \text{ A}$ (Note 4)aracteristics $V_{DS} = 25 \text{ V}, \text{ V}_{GS} = 0 \text{ V},$ f = 1.0 MHzCapacitance $V_{DS} = 25 \text{ V}, \text{ V}_{GS} = 0 \text{ V},$ f = 1.0 MHzint Capacitance $f = 1.0 \text{ MHz}$ int Capacitance $V_{DS} = 25 \text{ V}, \text{ V}_{GS} = 0 \text{ V},$ f = 1.0 MHzint Capacitance $V_{DS} = 25 \text{ V}, \text{ V}_{DD} = 6.8 \text{ A},$ $R_G = 25 \Omega$ On Rise Time $V_{DD} = 30 \text{ V}, \text{ I}_D = 6.8 \text{ A},$ $R_G = 25 \Omega$ Off Delay Time $V_{DS} = 48 \text{ V}, \text{ I}_D = 13.6 \text{ A},$	ard Transconductance $V_{DS} = 25 \text{ V}, I_D = 5.5 \text{ A}$ (Note 4)6aracteristicsCapacitance $V_{DS} = 25 \text{ V}, V_{GS} = 0 \text{ V},$ f = 1.0 MHz270 ut Capacitancef = 1.0 MHz95 rse Transfer Capacitancef = 1.0 MHz17haracteristicsOn Delay Time $V_{DD} = 30 \text{ V}, I_D = 6.8 \text{ A},$ $R_G = 25 \Omega$ 8 Off Delay Time(Note 4, 5)20 Off Fall Time(Note 4, 5)40	ard Transconductance $V_{DS} = 25 \text{ V}, I_D = 5.5 \text{ A}$ (Note 4) 6 aracteristics Capacitance $V_{DS} = 25 \text{ V}, V_{GS} = 0 \text{ V},$ 270 350 Capacitance $V_{DS} = 25 \text{ V}, V_{GS} = 0 \text{ V},$ 95 125 ut Capacitance $f = 1.0 \text{ MHz}$ 17 23 haracteristics On Delay Time $V_{DD} = 30 \text{ V}, I_D = 6.8 \text{ A},$ 8 25 On Rise Time $V_{DD} = 30 \text{ V}, I_D = 6.8 \text{ A},$ 8 25 90 190 Off Delay Time $V_{CD} = 25 \Omega$ (Note 4, 5) 40 90

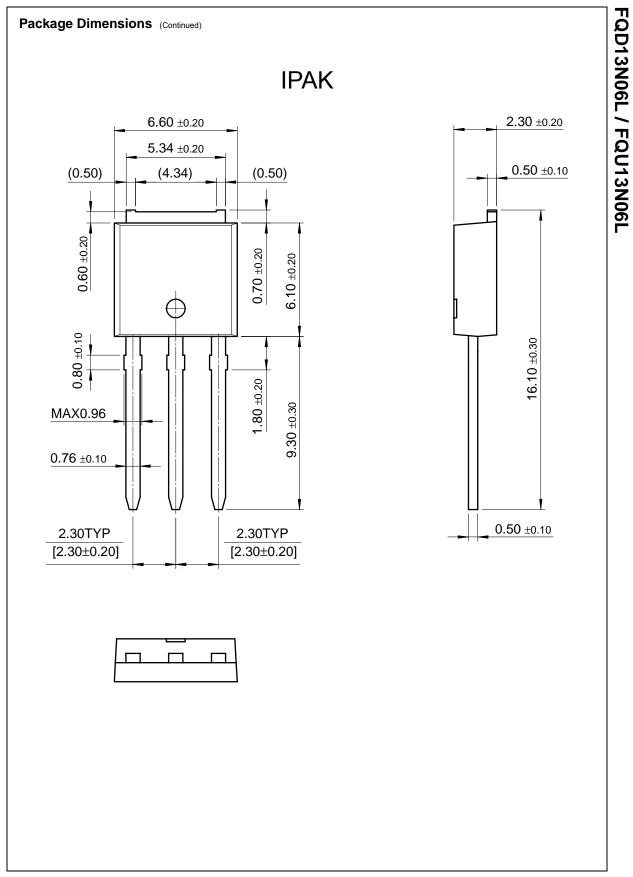














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