

Package

D-PAK (TO-252)

Tape width

16mm

Reel Size

13"

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Quantity

2500 units

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Device Marking

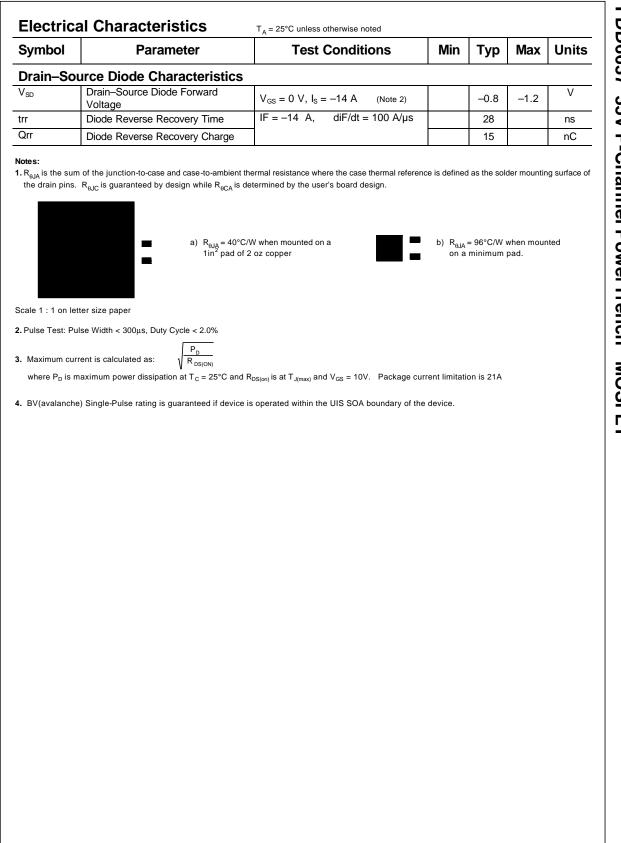
FDD6637

Package Marking and Ordering Information

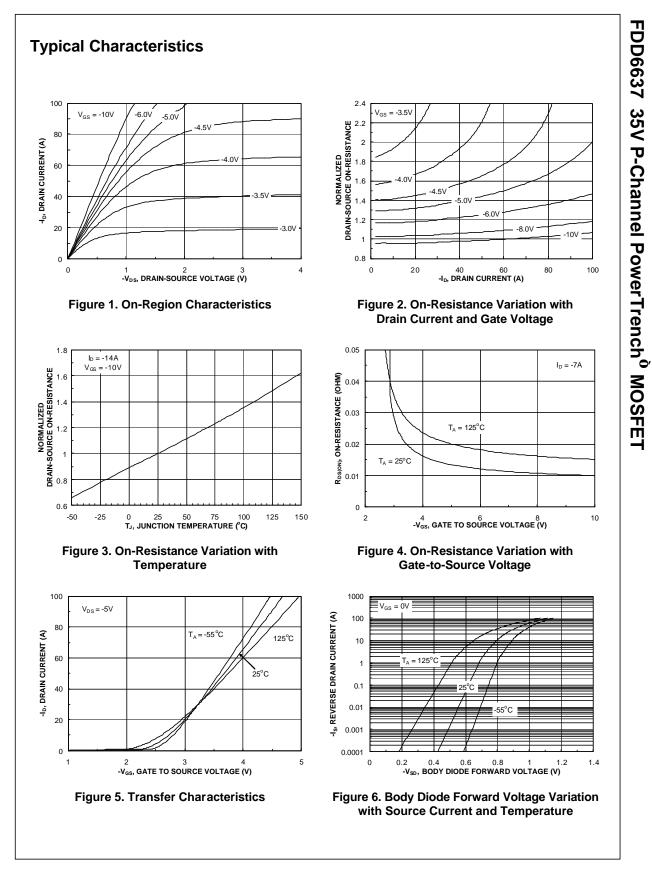
Device

FDD6637

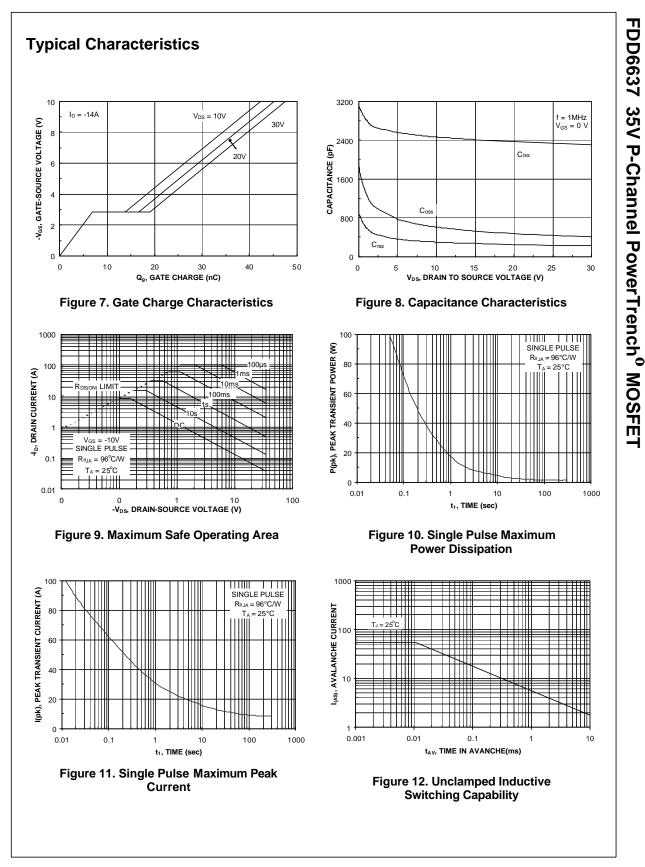
Symbol	Parameter	Test Conditions	Min	Тур	Max	Units
Drain-So	urce Avalanche Ratings					
E _{AS}	Drain-Source Avalanche Energy (Single Pulse)	$V_{DD} = -35 V, I_{D} = -11 A, L = 1mH$		61		mJ
I _{AS}	Drain-Source Avalanche Current			-14		А
Off Chara	Acteristics(Note 2)					
BV _{DSS}	Drain–Source Breakdown Voltage	$V_{GS} = 0 V$, $I_D = -250 \mu A$	-35			V
I _{DSS}	Zero Gate Voltage Drain Current	$V_{\text{DS}} = -28 \ \text{V}, V_{\text{GS}} = 0 \ \text{V}$			-1	μΑ
I _{GSS}	Gate-Body Leakage	$V_{\text{GS}} = \pm 25 \text{ V}, \qquad V_{\text{DS}} = 0 \text{ V}$			±100	nA
On Chara	Acteristics (Note 2)					
V _{GS(th)}	Gate Threshold Voltage	$V_{DS} = V_{GS}, I_{D} = -250 \ \mu A$	-1	-1.6	-3	V
R _{DS(on)}	Static Drain–Source On–Resistance	$ \begin{array}{ll} V_{\rm GS} = -10 \ V, & I_{\rm D} = -14 \ A \\ V_{\rm GS} = -4.5 \ V, & I_{\rm D} = -11 \ A \\ V_{\rm GS} = -10 \ V, & I_{\rm D} = -14 \ A, \ T_{\rm J} = 125^{\circ} C \end{array} $		9.7 14.4 14.7	11.6 18 19	mΩ
g _{FS}	Forward Transconductance	$V_{DS} = -5 V$, $I_D = -14 A$		35		S
Dvnamic	Characteristics					
Ciss	Input Capacitance	$V_{DS} = -20 \text{ V}, V_{GS} = 0 \text{ V},$		2370		pF
C _{oss}	Output Capacitance			470		pF
C _{rss}	Reverse Transfer Capacitance	– f = 1.0 MHz		250		pF
R _G	Gate Resistance	f = 1.0 MHz		3.6		Ω
Switchin	Characteristics (Note 2)			•		•
t _{d(on)}	Turn–On Delay Time			18	32	ns
t _r	Turn–On Rise Time	$V_{DD} = -20 V, \qquad I_{D} = -1 A,$		10	20	ns
t _{d(off)}	Turn–Off Delay Time	$V_{GS} = -10 \text{ V}, \qquad R_{GEN} = 6 \Omega$		62	100	ns
t _f	Turn–Off Fall Time	<u>]</u>		36	58	ns
Q _g	Total Gate Charge, $V_{GS} = -10V$			45	63	nC
Q _g	Total Gate Charge, $V_{GS} = -5V$	$V_{DS} = -20 V, I_{D} = -14 A$		25	35	nC
Q _{gs}	Gate-Source Charge			7		nC
Q_{gd}	Gate-Drain Charge			10		nC



FDD6637 35V P-Channel PowerTrench⁰ MOSFET

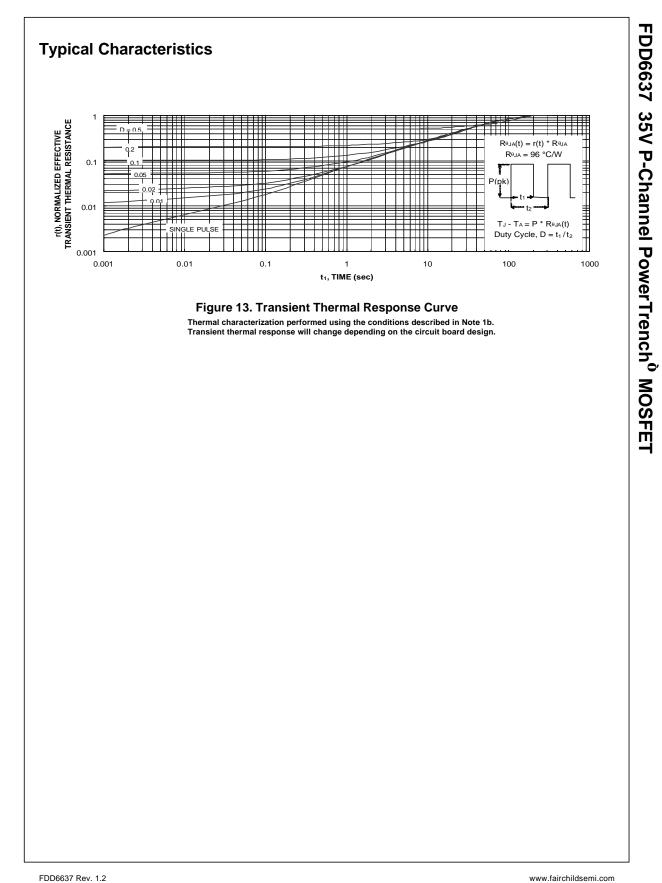


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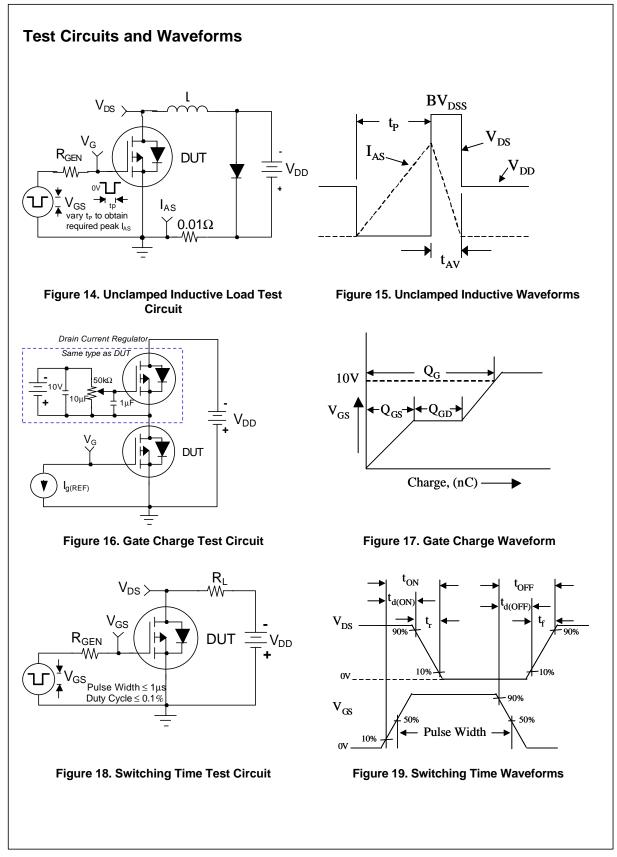


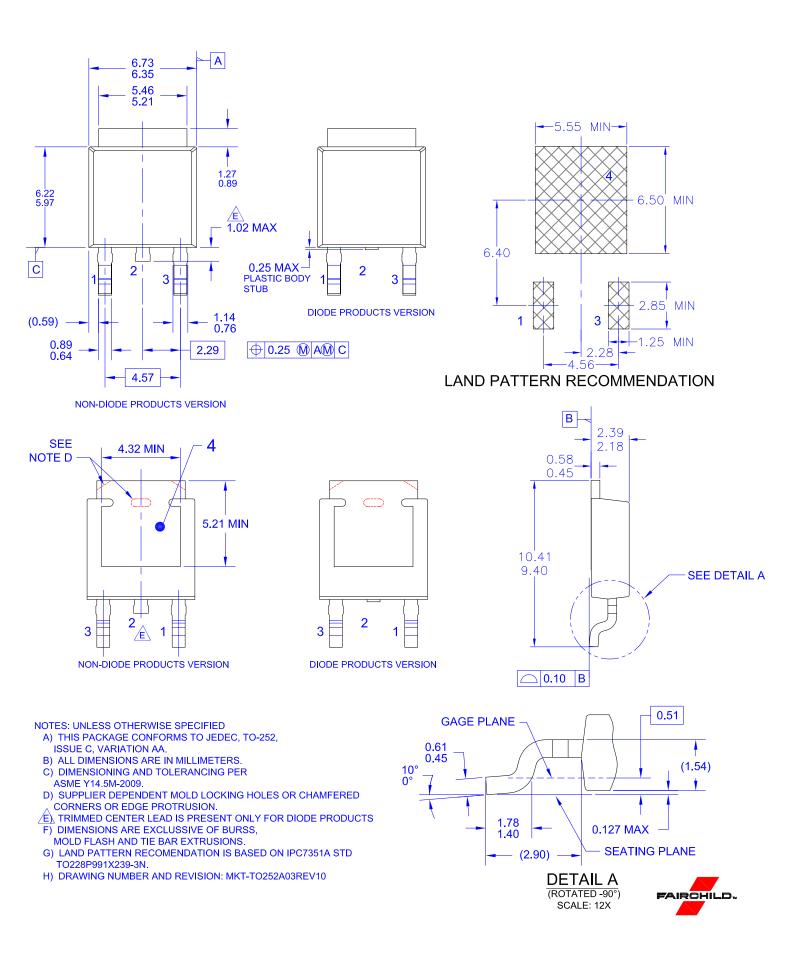
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Rev. 177