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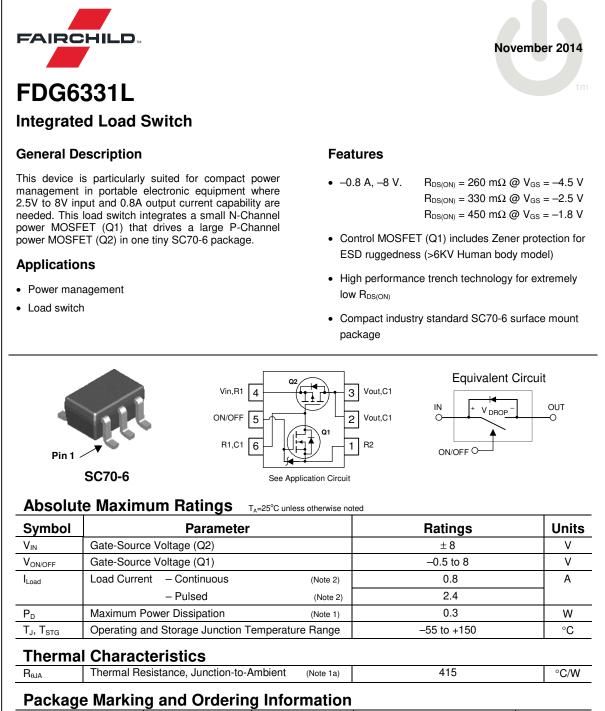


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Package Marking and Ordering Information							
Device Marking	Device	Reel Size	Tape width	Quantity			
.31	FDG6331L	7"	8mm	3000 units			

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FDG6331L

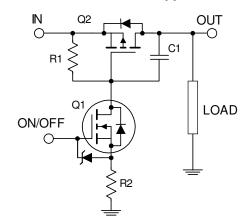
FDG6331L

Symbol	Parameter	Test Conditions	Min	Тур	Max	Units
Off Char	acteristics					
BVIN	Vin Breakdown Voltage	$V_{ON/OFF} = 0 V$, $I_D = -250 \mu A$	8			V
Load	Zero Gate Voltage Drain Current	$V_{IN} = -6.4 \text{ V}, V_{ON/OFF} = 0 \text{ V}$			-1	μA
I _{FL}	Leakage Current, Forward	$V_{\text{ON/OFF}}=0~V, V_{\text{IN}}=8~V$			100	nA
I _{RL}	Leakage Current, Reverse	$V_{ON/OFF} = 0 V, V_{IN} = -8 V$			-100	nA
On Char	acteristics (Note 2)					
V _{ON/OFF (th)}	Gate Threshold Voltage	$V_{\text{IN}} = V_{\text{ON/OFF}}, \ I_{\text{D}} = -250 \ \mu\text{A}$	0.4	0.9	1.5	V
R _{DS(on)}	Static Drain–Source On–Resistance (Q2)	$ \begin{array}{ll} V_{\rm IN} = 4.5 \; V, & I_{\rm D} = -0.8 \; A \\ V_{\rm IN} = 2.5 \; V, & I_{\rm D} = -0.7 \; A \\ V_{\rm IN} = 1.8 \; V, & I_{\rm D} = -0.6 \; A \end{array} $		155 193 248	260 330 450	mΩ
$R_{\text{DS(on)}}$	Static Drain–Source On–Resistance (Q1)			310 380	400 500	mΩ
Drain-Se	ource Diode Characteristics	and Maximum Ratings				
ls	Maximum Continuous Drain–Source Diode Forward Current				-0.25	Α
V _{SD}	Drain–Source Diode Forward Voltage	$V_{ON/OFF} = 0 \text{ V}, \text{ I}_{S} = -0.25 \text{ A}(\text{Note 2})$			-1.2	V

Notes: 1. R_{0,JA} is the sum of the junction-to-case and case-to-ambient thermal resistance where the case thermal reference is defined as the solder mounting surface of the drain pins. R_{BJC} is guaranteed by design while R_{BJA} is determined by the user's board design.

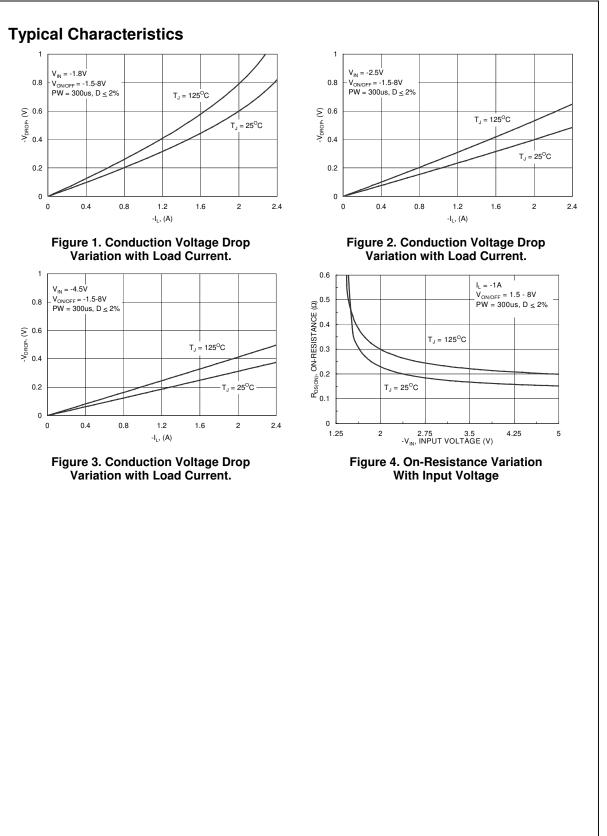
2. Pulse Test: Pulse Width < 300 μ s, Duty Cycle < 2.0%.

FDG6331L Load Switch Application Circuit



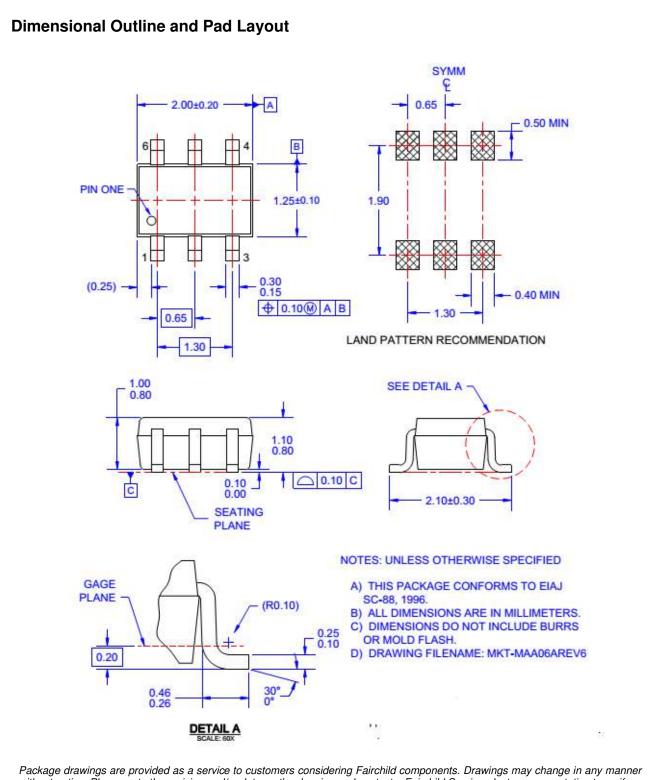
External Component Recommendation: For additional in-rush current control, R2 and C1 can be added. For more information, see application note AN1030.

FDG6331L Rev B1 (W)



FDG6331L

FDG6331L



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