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YJG90G10A

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FOR NEW DESIGN

Electrical Characteristics ($T_J=25$ unless otherwise noted)

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Static Parameter						
Drain-Source Breakdown Voltage	BV_{DSS}	$V_{GS}=0V, I_D=250$	100			V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=100V, V_{GS}=0V$			1	A
Gate-Body Leakage Current	I_{GSS}	$V_{GS}=20V, V_{DS}=0V$			100	nA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}, I_D=250$	1.0	1.8	2.5	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS}=10V, I_D=20A$		4.1	5.0	m
		$V_{GS}=4.5V, I_D=20A$		5.7	7.1	m
Diode Forward Voltage	V_{SD}	$I_S=20A, V_{GS}=0V$			1.3	V
Maximum Body-Diode Continuous Current	I_S				90	A
Gate resistance	R_G	$f=1MHz$		0.9		
Dynamic Parameters						
Input Capacitance	C_{iss}			3927		
Output Capacitance	C_{oss}	$V_{DS}=50V, V_{GS}=0V, f=1MHz$				pF



Typical Performance Characteristics

Figure1. Output Characteristics

Figure2. Transfer Characteristics

Figure3. Capacitance Characteristics

Figure4. Gate Charge

Figure5. : On-Resistance vs. Gate to Source Voltage

Figure6. Normalized On-Resistance

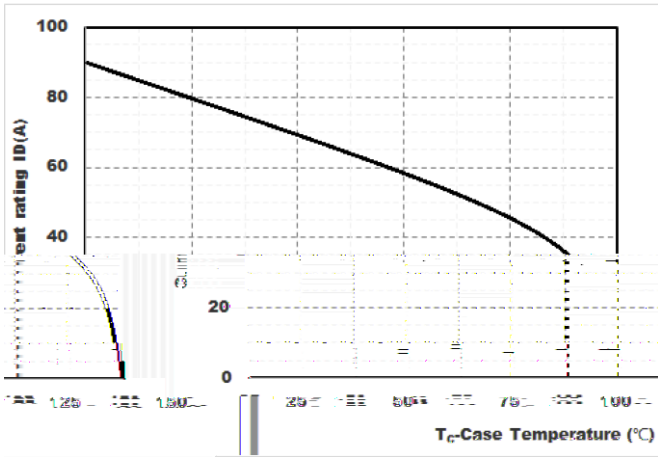


Figure7. Drain current

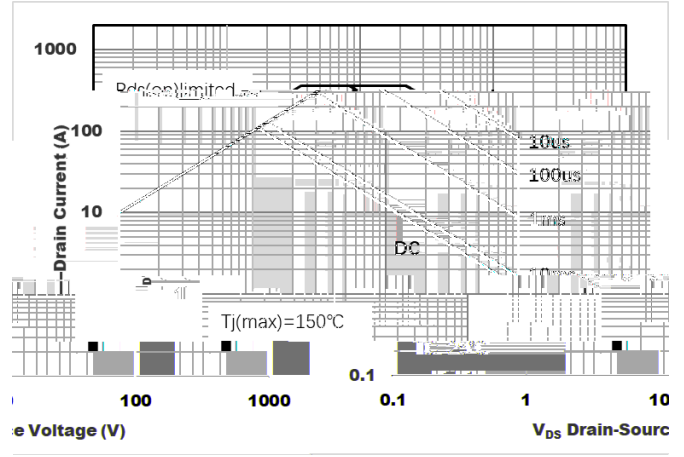


Figure8.Safe Operation Area

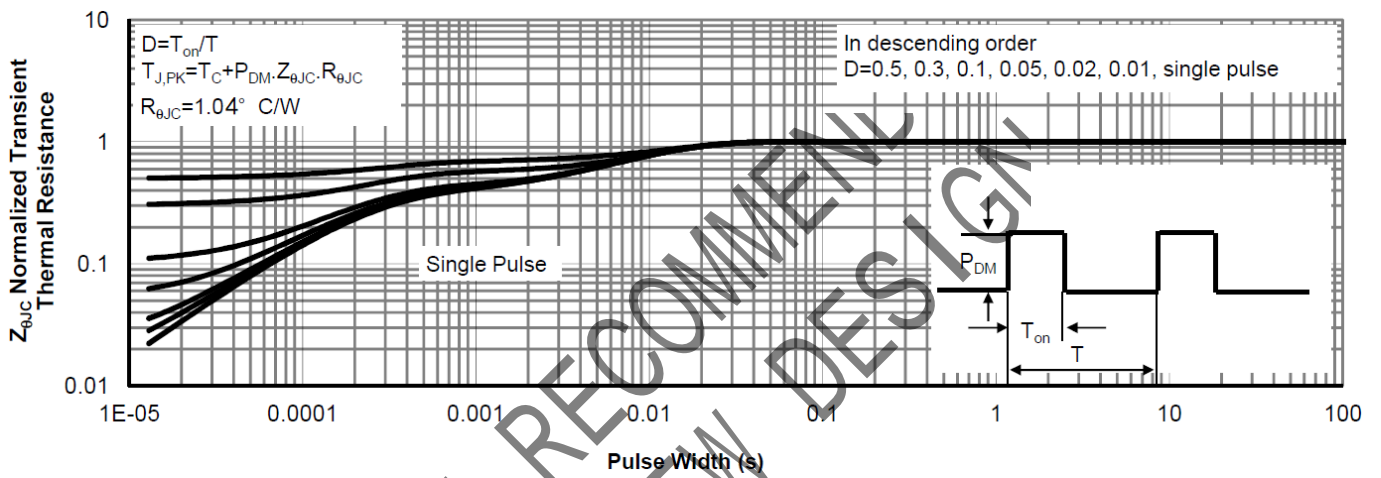


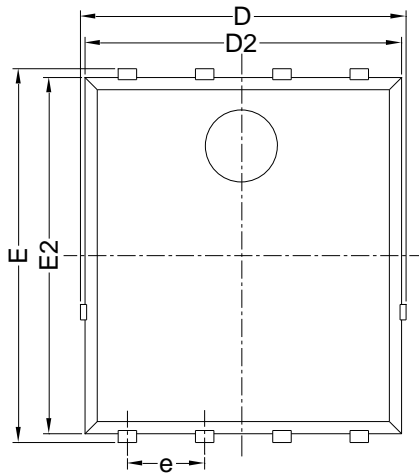
Figure9.Normalized Maximum Transient thermal impedance



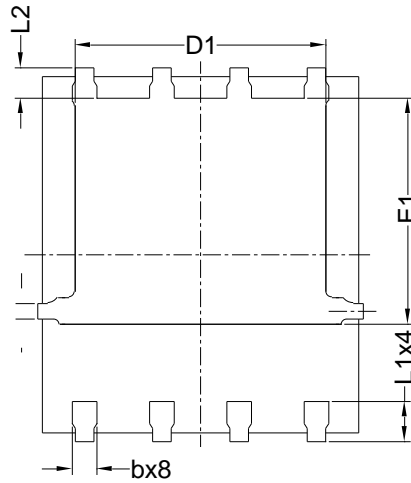
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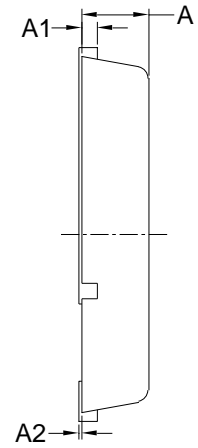
PDFN5060-8L-B-1.1MM Package information



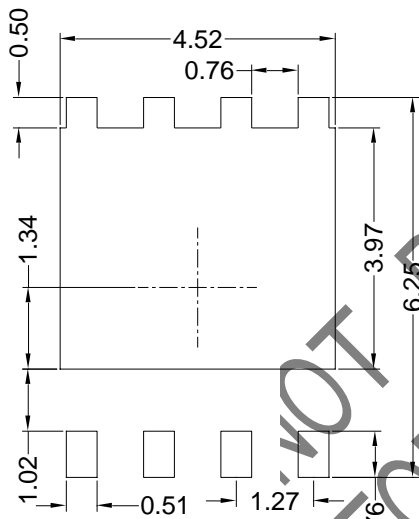
Top View



Bottom View



Side View



Suggested Solder Pad Layout
Top View

SYMBOL	MILLIMETER		
	MIN	NOM	MAX
D	5.15	5.35	5.55
E	5.95	6.15	6.35
A	1.00	1.10	1.20
A1	0.254 BSC		
A2			0.10
D1	3.92	4.12	4.32
E1	3.52	3.72	3.92
D2	5.00	5.20	5.40
E2	5.66	5.86	6.06
E3	0.254 REF		
E4	0.21 REF		
L1	0.56	0.66	0.76
L2	0.50 BSC		
b	0.31	0.41	0.51
e	1.27 BSC		

Note:

1. Controlling dimension: in millimeters.
2. General tolerance: ± 0.10 mm.
3. The pad layout is for reference purposes only.



Disclaimer

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