



## N-Channel Enhancement Mode Field Effect Transistor

### Product Summary

$V_{DS}$	80V
$I_D$	100A

$R_{DS(ON)}$  P-AMCID 11/Lang (en-US)-BDC q0.00000 841.01W\*0 0 1 517t0 G[A]TJETQq0.00000888 0 59



# YJG100G08E

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

Parameter	Symbol	Conditions	Min	Typ	Max	Units
<b>Static Parameter</b>						
Drain-Source Breakdown Voltage	$BV_{DSS}$	$V_{GS}=0V, I_D=250\mu A$	80	-	-	V
Zero Gate Voltage Drain Current	$I_{DSS}$	$V_{DS}=80V, V_{GS}=0V$	-	-	1	$\mu A$
Gate-Body Leakage Current	$I_{GSS}$	$V_{GS}=\pm 20V, V_{DS}=0V$	-	-	$\pm 100$	nA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}, I_D=250\mu A$	1.0	1.8	2.5	V
Static Drain-Source On-Resistance	$R_{DS(ON)}$	$V_{GS}=10V, I_D=20A$	-	3.6	4.5	m
		$V_{GS}=4.5V, I_D=20A$	-	4.8	6.5	
Diode Forward Voltage	$V_{SD}$	$I_S=20A, V_{GS}=0V$	-	0.8	1.2	V
Maximum Body-Diode Continuous Current	$I_S$		-	-	100	A
Gate resistance	$R_G$	$f=1MHz$	-	2	-	

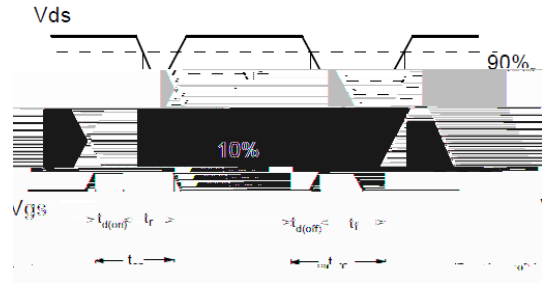
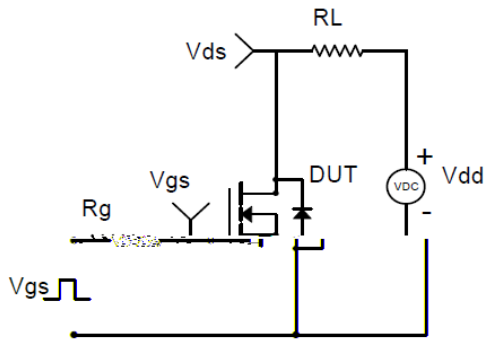
Transconductance (181.75 637.39 0.48 0.48 r



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Typical Performance Characteristic  $Tf1$  0 0 1 2.5.1  $Tm0$  g0 G -0.08  $Tcp$  10000 JETQ EMC /P /MCID



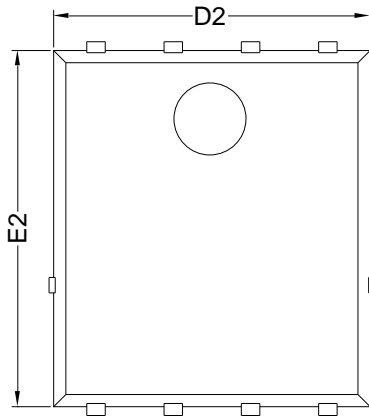


**Resistive Switching Test Circuit &**

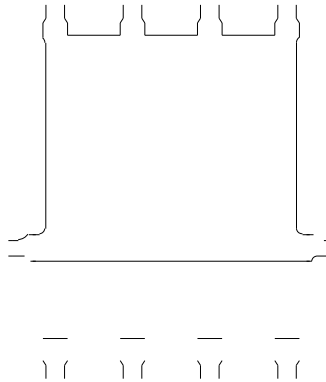


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## PDFN5060-8L-B-1.1MM Package information



Top View



Bottom View

Side 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:  $\pm 0.10$  mm.
3. The pad layout is for reference purposes only.



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## Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to hs (n)30( )42(t)-10(o)30( )-1d(i)-14(a)(si)a i rod( )-1ce i rp7(d)3(o)3(cu)30(m)-34(e)30()-10(o)30( )-1